



**BEFORE THE PUBLIC UTILITIES COMMISSION OF THE
STATE OF CALIFORNIA**

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In the Matter of the Application of SOUTHERN
CALIFORNIA EDISON COMPANY (U 338-E)
for a Permit to Construct Electrical Facilities
With Voltages Between 50 kV and 200 kV:
Gorman-Kern River Project.

A.22-02-XXX

**APPLICATION OF SOUTHERN CALIFORNIA EDISON COMPANY
(U 338-E) FOR A PERMIT TO CONSTRUCT ELECTRICAL FACILITIES WITH
VOLTAGES BETWEEN 50 kV AND 200 kV: GORMAN-KERN RIVER PROJECT**

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Application Of Southern California Edison Company (U 338-E) For A Permit To Construct Electrical Facilities With Voltages Between 50 Kv And 200 Kv: Gorman-Kern River Project

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I.

INTRODUCTION

Pursuant to California Public Utilities Commission (“Commission” or “CPUC”), General Order 131-D (“G.O. 131-D”), Southern California Edison Company (“SCE”) respectfully submits this application (“Application”) for a permit to construct (“PTC”) authorizing SCE to construct the proposed project known as the Gorman-Kern River Project (“GKR Project”). The purpose of the GKR Project is to remediate physical clearance discrepancies identified on some of SCE’s existing 66 kilovolt (“kV”) subtransmission lines while continuing to provide safe and reliable electric service.¹ SCE has prepared a Proponent’s Environmental Assessment (“PEA”) that analyzes the GKR Project scope. The PEA is submitted concurrently with this Application.

II.

BACKGROUND

More than a decade ago, the North American Electric Reliability Corporation (“NERC”) issued a nationwide alert to electrical transmission and distribution providers to develop and

¹ SCE identifies electrical lines operated at voltages between 50 kilovolts (kV) and 200 kV as subtransmission lines or subtransmission circuits. Electrical lines operated at voltages at or greater than 200 kV are identified as transmission lines.

publish a facility capacity rating system. Subsequently, in 2006 SCE initiated a Light Detection and Ranging (“LiDAR”) study and engineering modeling work to establish and publish facility ratings across the service territory.² In 2007, SCE identified and self-reported non-compliance with NERC Standard FAC-009-1 to NERC and submitted a mitigation plan to the Western Electricity Coordinating Council (“WECC”) describing how SCE planned to come into compliance with the standard requirements. Around the same time, NERC itself determined that discrepancies across North America had become a significant reliability concern, and in 2010 NERC issued a *Recommendation to Industry* that directed transmission providers across the continent to implement an assessment, reporting and corrective action program to remediate discrepancies.³

In response, SCE established the Transmission Line Rating Remediation (“TLRR”) Program to address discrepancies on SCE’s system.⁴ The TLRR Program focuses on developing and implementing engineering solutions for each identified discrepancy, with the goal of bringing the affected circuits into compliance with CPUC General Order 95 (“G.O. 95”) to ensure the continuance of safe and reliable electric service. SCE identified numerous discrepancies along its BES facilities⁵ with respect to G.O. 95 Rules 37 through 39, which specify minimum vertical and horizontal clearances to be maintained between an electrical conductor and other conductors, or between a conductor and the ground, buildings, and a variety of other objects.

² SCE conducted its LiDAR study between 2006-2011. The study evaluated discrepancies along SCE’s Bulk Electric System (“BES”) as well as certain non-BES radial facilities.

³ See *Recommendation To Industry: Consideration of Actual Field Conditions in Determination of Facility Ratings*, NERC (October 7, 2010, updated November 30, 2010), available at: https://www.nerc.com/fileUploads/File/Events%20Analysis/Ratings_Recommendation_to_Industry_20100929Final.pdf.

⁴ SCE’s TLRR Program includes SCE’s BES circuits as well as some non-BES 115 kV radial subtransmission circuits included in the TLRR Program as part of a 2016 agreement between SCE, NERC, WECC, and the CPUC.

⁵ SCE defines BES to include those facilities that are under California Independent System Operator (“CAISO”) control.

SCE's assessment evaluated discrepancies along circuits in SCE's BES, including the circuits that make up the GKR Project. SCE provided the results of its assessment to NERC because the G.O. 95 clearance discrepancies result in reduction to line ratings. SCE also filed a plan to address these discrepancies with WECC.

SCE generated a prioritization plan for remediating spans identified as potentially not meeting CPUC G.O. 95 clearance requirements under specified operating and atmospheric conditions. SCE communicated information regarding identified discrepancies to both the CPUC and the California Independent System Operator ("CAISO"). In 2011 SCE provided its plan for remediating spans identified as potentially not meeting G.O. 95 clearance requirements to the WECC, CAISO and CPUC Safety and Enforcement Division ("SED").

Over time, SCE system re-configurations have resulted in the removal of certain facilities from CAISO control. In 2015, as a result of the Eastern Kern Wind Resource Area ("EKWRA") Project, SCE's system was re-configured in such a way that facilities that had previously functioned as integrated network transmission facilities became part of the radial local distribution system.⁶ Subsequently, because these facilities were no longer under CAISO, the circuits were removed from the BES.⁷ The facilities affected by the EKWRA Project re-configuration included the circuits that make up the GKR Project.

Despite the change in status, SCE remains committed to remediating the G.O. 95 discrepancies identified on the GKR circuits as part of SCE's TLRR Program. Without the GKR Project, clearance discrepancies would remain on the GKR circuits. Failing to remediate these known discrepancies and leaving the GKR circuits as is could present service reliability risks to SCE's system, and public safety risks under certain conditions.

⁶ The EKWRA Project removed the need for the Antelope-Bailey 66kV system to operate as part of the BES, thereby changing the operational configuration of the remaining 66kV facilities in that system (including the GKR circuits) from BES to radial.

⁷ SCE notified WECC of the change in status of the GKR circuits in 2020.

Clearance regulations exist to maintain reliability and ensure safety by reducing the likelihood that a line will come in physical contact with another object such as the ground or another line. Existing discrepancies from relevant clearance regulations create risks that may affect service reliability and public safety because discrepancies from the clearance regulations increase the likelihood that a line could come into contact with another object, creating a public safety event such as an electrical fault, electrocution, or fire. A SCE analysis found that the GKR circuits are among the subtransmission circuits with the highest risk of coming into contact with another object, as described above. There are approximately 199 G.O. 95 discrepancies on the circuits that make up the GKR Project. Failing to remediate these known discrepancies because the circuits that make up the GKR Project are no longer part of the BES system would mean accepting a risk of circuit failure. In contrast, remediating these discrepancies would mitigate clearance infractions and address safety and reliability concerns consistent with the objective of SCE's TLRR Program as a whole.

Because SCE identified G.O. 95 discrepancies on the GKR Project circuits while those circuits were still a part of the BES, continued to report outstanding discrepancies on these circuits to the CPUC with the intent of remediating these discrepancies as part of the TLRR Program, and failing to remediate known discrepancies the GKR circuits would mean accepting the risk of circuit failure, SCE plans to remediate the identified G.O. 95 discrepancies along the following existing 66 kV subtransmission line circuits located in portions of Kern County and Los Angeles County and the Cities of Arvin and Bakersfield in Kern County as part of the TLRR Program:

- Banducci-Kern River 1
- Frazier Park-Gorman
- Gorman-Kern River 1

The work needed to remediate the discrepancies on these specific circuits constitutes the scope of the GKR Project.

As discussed in greater detail in the PEA submitted in conjunction with this Application, SCE has identified a number of ways to remediate the discrepancies identified along the five subtransmission line segments that make up the Banducci-Kern River 1, Frazier Park-Gorman, and Gorman-Kern River 1 circuits.⁸ As a result of that effort, and as discussed more fully in Chapter 4 of the attached PEA, SCE analyzed several alternatives—in addition to a No Project Alternative—for feasibility and potential environmental impacts. The types of alternatives SCE analyzed to remediate discrepancies include: Reduced Footprint Alternatives (Decommission and Remove); Energy Storage Alternatives; Derating; Other Technological Alternatives (Conductor and Microgrid); Route Alternatives; and Alternative Engineering or Technical Approaches. The feasibility of these alternatives is summarized in Chapter 4 of the PEA.

Based on the analysis in the attached PEA, SCE identified the GKR Project, as described more fully in Chapter 3 of the PEA, as the alternative that would meet the GKR Project objectives with the fewest environmental impacts compared to other alternatives. On that basis SCE respectfully requests approval of a PTC authorizing SCE to implement the GKR Project.

The proposed scope of work for the GKR Project consists of the following major components, which are described in further detail below in Section III (Summary of Request):

⁸ The three circuits are comprised of the following five segments:

- Segment 1 consists of portions of the Gorman-Kern River 1 and Banducci-Kern River 1 66 kV subtransmission lines. Segment 1 spans approximately 20.4 miles from the existing Kern River 1 Hydroelectric Substation to and including Structure M20-T3 (a location referred to as “the T”).
- Segment 2 consists of portions of the Gorman-Kern River 1 66 kV Subtransmission Line. Segment 2 spans approximately 26.5 miles from Structure M20-T3 to and including Structure M46-T6.
- Segment 3 consists of portions of the Gorman-Kern River 1 and Frazier Park-Gorman 66 kV subtransmission lines. Segment 3 spans approximately 4.1 miles from Structure M46-T6 to the existing Gorman Substation.
- Segment 4 consists of portions of the Banducci-Kern River 1 66 kV Subtransmission Line. Segment 4 spans approximately 11.3 miles from Structure M20-T3 to and including Structure M11-T3.
- Segment 5 consists of portions of the Banducci-Kern River 1 66 kV Subtransmission Line and includes distribution circuitry, and telecommunications infrastructure. Segment 5 spans approximately 3 miles from Pole X7666E to the existing Banducci Substation.

- Rebuilding portions of three existing subtransmission lines either by removing and replacing existing subtransmission structures, or modifying individual subtransmission structures;
- Removing existing conductor and installing new conductor or transferring existing conductor on new or modified subtransmission structures;
- Modifying individual subtransmission structures to accommodate communications infrastructure such as optical groundwire (“OPGW”) or All-Dielectric Self-Supporting (“ADSS”) fiber optic cable;
- Transferring existing distribution circuitry to replacement structures; and
- Installing new OPGW and/or ADSS fiber optic cable.

III.

SUMMARY OF REQUEST

As described further in the PEA *Chapter 2 – Project Purpose and Need and Objectives*, the GKR Project is being proposed to meet the following objectives²:

- Ensure compliance with CPUC G.O. 95 standards.
- Address reliability concerns related to the condition of existing infrastructure on the affected subtransmission lines.

As presented in the PEA Chapter 4, SCE analyzed comprehensive Project Alternatives for remediating G.O. 95 discrepancies. Based on SCE’s analysis of alternatives in the PEA, SCE has identified the GKR Project as its proposed project.

The GKR Project includes the following components:

- **Subtransmission**
 - The GKR Project would remediate discrepancies and address reliability concerns along approximately 65 miles of existing 66 kV subtransmission lines by rebuilding and replacing infrastructure. Work will include:
 - Removing and replacing existing subtransmission structures (to include lattice steel towers (“LSTs”), tubular steel poles (“TSPs”), wood pole H-

² As with all of SCE’s TLRR Projects, the GKR Project is designed to meet the GKR Project needs while minimizing environmental impacts, providing safe and reliable electric service, and conforming with industry and/or SCE’s approved engineering, design, and construction standards for substation and subtransmission system projects.

frames, wood poles, lightweight steel (“LWS”) H-frames, and three-pole structures) in Segments 1, 2, 3, and 4, and replacing them with new subtransmission structures (to include TSPs, TSP H-frames, LWS poles, and LWS H-frames).

- Modifying existing LSTs in Segment 1.
- Replacing existing structures in Segment 5.
- Removing existing conductor in Segments 1, 2, 3, and 4 and installing new Aluminum Conductor Composite Core (“ACCC”) and/or Aluminum Conductor Steel Reinforced (“ACSR”) subtransmission conductor on replacement structures.
- Transferring existing conductor to new structures in Segment 5.

- **Distribution**

- In Segment 5, transfer the existing distribution circuits and appurtenances to the new replacement structures.

- **Telecommunications/System Protection**

- In Segments 1, 2, 3, and 4, install approximately 62 linear miles of OPGW and/or ADSS fiber optic cable on replacement structures.
 - In Segments 1 and 3, install approximately 860 feet of ADSS fiber optic cable underground within existing substations, and approximately 445 feet underground outside existing substations.
- In Segment 5 install approximately 3 linear miles of ADSS fiber optic cable below the conductor on new and existing structures.
- Install telecommunication equipment on existing rack structures, install cable in new or existing underground cable raceways, and install new or replacement of existing telecommunications infrastructure within existing control buildings or mechanical-electrical equipment rooms (“MEERs”) at the existing Banducci, Gorman, and Kern River 1 Hydroelectric substations.

- **Substations**

- Disconnect existing conductor from existing positions at the existing Banducci, Gorman, and Kern River 1 Hydroelectric substations and connect new conductor to existing substation positions.
- Install new OPGW at Gorman and Kern River 1 Hydroelectric substations and make minor modifications to the existing terminal racks to accommodate the new OPGW.

- Update relay settings at the existing Banducci, Gorman, and Kern River 1 Hydroelectric substations.

The estimated cost of the GKR Project is approximately \$173 million in 2021 constant dollars.¹⁰ The PEA prepared for the GKR Project, which discusses several alternatives to accomplish the GKR Project objectives (including a “No Project” alternative), is attached to this Application. The PEA will be referenced in this Application, where appropriate, as the source of information required in an Application for a PTC¹¹ pursuant to G.O. 131-D, Section IX.B. A summary of the GKR Project’s purpose, need, and objectives is located in Chapter 2 of the PEA. A detailed description of the GKR Project is located in Chapter 3 of the PEA.

Construction of the GKR Project is scheduled to begin in 4th quarter 2024 and scheduled to be completed by 4th quarter 2026. A detailed schedule for the GKR Project is included in this Application as APPENDIX C.

SCE requests that the Commission, upon completion of its review of this Application, issue and approve or certify an appropriate environmental document pursuant to the California Environmental Quality Act (Pub. Resources Code §§ 21000 *et seq.*, “CEQA”), and issue a PTC authorizing SCE to construct the GKR Project as set forth in this Application and the attached PEA within the timelines set forth in Section IV.H of this Application.

IV.

STATUTORY AND PROCEDURAL REQUIREMENTS

A. Applicant

The applicant is Southern California Edison Company (“SCE”), an electric public utility company organized and existing under the laws of the State of California. SCE’s principal place of business is 2244 Walnut Grove Avenue, Post Office Box 800, Rosemead, California 91770.

Please address correspondence or communications in regard to this Application to:

¹⁰ This is a conceptual estimate, prepared in advance of final engineering and prior to CPUC approval. Pension and benefits, administrative and general expenses, and allowance for funds during construction are not included in these estimates.

¹¹ Other required information for a PTC application (*e.g.* Balance Sheet, Articles of Incorporation, *etc.*) is contained in this Application or its appendices.

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B. Articles of Incorporation

A copy of SCE's Certificate of Restated Articles of Incorporation, effective on March 2, 2006, and presently in effect, certified by the California Secretary of State, was filed with the Commission on March 14, 2006, in connection with Application No. 06-03-020, and is incorporated herein by this reference pursuant to Rule 2.2 of the Commission's Rules of Practice and Procedure.

A copy of SCE's Certificate of Determination of Preferences of the Series D Preference Stock filed with the California Secretary of State on March 7, 2011, and presently in effect, certified by the California Secretary of State, was filed with the Commission on April 1, 2011, in connection with Application No. 11-04-001, as is incorporated herein by this reference.

A copy of SCE's Certificate of Determination of Preferences of the Series E Preference Stock filed with the California Secretary of State on January 12, 2012, and a copy of SCE's Certificate of Increase of Authorized Shares of the Series E Preference Stock filed with the California Secretary of State on January 31, 2012, and presently in effect, certified by the California Secretary of State, were filed with the Commission on March 5, 2012, in connection with Application No. 12-03-004, and are incorporated herein by this reference.

A copy of SCE's Certificate of Determination of Preferences of the Series F Preference Stock filed with the California Secretary of State on May 5, 2012, and presently in effect, certified by the California Secretary of State, was filed with the Commission on June 29, 2012, in connection with Application 12-06-017, and is by reference made a part hereof.

A copy of SCE's Certificate of Determination of Preferences of the Series G Preference Stock filed with the Secretary of State on January 24, 2013, and presently in effect, certified by the California Secretary of State, was filed with the Commission on January 31, 2013, in connection with Application No. 13-01-016, and is by reference made a part hereof.

A copy of SCE's Certificate of Determination of Preferences of the Series H Preference Stock filed with the California Secretary of State on February 28, 2014, and presently in effect, certified by the California Secretary of State, was filed with the Commission on March 24, 2014, in connection with Application 14-03-013, and is by reference made a part hereof.

A copy of SCE's Certificate of Determination of Preferences of the Series J Preference Stock filed with the California Secretary of State on August 19, 2015, and presently in effect, certified by the California Secretary of State, was filed with the Commission on October 2, 2015, in connection with Application No. 15-10-001, and is by reference made a part hereof.

A copy of SCE's Certificate of Determination of Preferences of the Series K Preference Stock, filed with the California Secretary of State on March 2, 2016, and presently in effect, certified by the California Secretary of State, was filed with the Commission on April 1, 2016, in connection with Application No. 16-14-001, and is by reference made a part hereof.

A copy of SCE's Certificate of Determination of Preferences of the Series L Preference Stock filed with the California Secretary of State on June 20, 2017, and presently in effect, certified by the California Secretary of State, was filed with the Commission on June 30, 2017, in connection with Application No. 17-06-030, and is incorporated herein by this reference.

Certain classes and series of SCE's capital stock are listed on a "national securities exchange" as defined in the Securities Exchange Act of 1934, and copies of SCE's latest Annual Report to Shareholders and its latest proxy statement sent to its shareholders has been filed with

the Commission with a letter of transmittal dated March 12, 2021, pursuant to Commission General Order Nos. 65-A and 104-A.

C. Balance Sheet and Statement of Income

APPENDIX A to this Application contains copies of SCE's balance sheet and statement of income for the period ending December 31, 2021. The balance sheet reflects SCE's utility plant at original cost, less accumulated depreciation.

Since 1954, pursuant to Commission Decision No. 49665 dated February 16, 1954, in Application No. 33952, as modified by Decision No. 91799 in 1980, SCE has utilized straightline remaining life depreciation for computing depreciation expense for accounting and ratemaking purposes in connection with its operations.

Pursuant to Commission Decision No. 59926, dated April 12, 1960, SCE uses accelerated depreciation for income tax purposes and "flows through" reductions in income tax to customers within the Commission's jurisdiction for property placed in service prior to 1981. Consistent with Decision No. 93848 in OII-24, SCE uses the Accelerated Cost Recovery System ("ACRS") and Modified Accelerated Cost Recovery System ("MACRS") for federal income tax purposes and "normalizes" reductions in income tax to customers for property placed in service after 1980 in compliance with the Economic Recovery Tax Act of 1981, and also in compliance with the Tax Reform Act of 1986. Pursuant to Decision No. 88-01-061, dated January 28, 1988, SCE uses a gross of tax interest rate in calculating the AFUDC Rate, and income tax normalization to account for the increased income tax expense occasioned by the Tax Relief Act of 1986 provisions requiring capitalization of interest during construction for income tax purposes.

D. Description of Southern California Edison Company

SCE is a corporation organized and existing under the laws of the State of California, and is primarily engaged in the business of generating, purchasing, transmitting, distributing and selling electric energy for light, heat and power in portions of central and southern California as a public utility subject to the jurisdiction of the California Public Utilities Commission. SCE's properties, which are located primarily within the State of California, consist mainly of

hydroelectric and thermal electric generating plants, together with transmission and distribution lines and other property necessary in connection with its business.

E. Service Territory

SCE's service territory is located in 15 counties in central and southern California, consisting of Fresno, Imperial, Inyo, Kern, Kings, Los Angeles, Madera, Mono, Orange, Riverside, Santa Barbara, San Bernardino, Tulare, Tuolumne,¹² and Ventura Counties, and includes approximately 201 incorporated communities as well as outlying rural territories. A list of the counties and municipalities served by SCE is attached hereto as APPENDIX B. SCE also supplies electricity to certain customers for resale under tariffs filed with the Federal Energy Regulatory Commission.

F. Location of Items Required in Permit to Construct Pursuant to G.O. 131-D Section IX.B

Much of the information required to be included in a PTC application pursuant to G.O. 131-D, Section IX.B is found in the PEA filed with this Application.

Required PTC application information has been cross-referenced to the PEA in the following text. The PTC application requirements of G.O. 131-D, Section IX.B are in ***bold italics***, and the PEA references follow in bulleted plain text.

1. A description of the proposed power line or substation facilities, including the proposed power line route; proposed power line equipment, such as tower design and appearance, heights, conductor sizes, voltages, capacities, substations, switchyards, etc., and a proposed schedule for authorization, construction, and commencement of operation of the facilities.

- Descriptions of the GKR Project are found throughout the PEA, including in Chapter 1, Chapter 2, and Chapter 3. Descriptions of comprehensive Project

¹² SCE provides electric service to a small number of customer accounts in Tuolumne County and is not subject to franchise requirements.

Alternatives are discussed in Chapter 4 of the PEA. Descriptions of the GKR Project alignment, referring to the locations where work generally would be done, are described in the PEA in Section 3.1 (“Project Overview”) and Section 3.2 (“Existing and Proposed System”) and all subsections contained therein, and illustrated in Figures/Figuresets 3.1-1 (“Project Overview by Segment”) and 3.2-1a-b (“Existing System” and “Proposed System”).

- The physical characteristics of the equipment proposed to be included in the GKR Project are described in the PEA in Chapter 3, particularly in Section 3.3 (“Project Components”) and all subsections contained therein, and illustrated in Figures/Figuresets 3.5-1 (“Staging Areas”), 3.5-2 (“Typical Pull-and-Tension/Stringing Site Set-Up”), 3.5-3 (“Telecommunications Underground Routes”), and 3.5-4 (“Vault/Pull Box Detail”). The physical characteristics of alternatives to the GKR Project are described in the PEA in Chapter 4, and are illustrated in Figures/Figuresets 4.1-1b (“Alternative A System”) 4.1-1c (“Alternative B System”), and 4.1-1c (“Alternative C System”).
- The GKR Project Schedule is discussed in PEA Section 3.6.4 (“Construction Schedule”) and attached to this Application as APPENDIX C.

2. **A map of the proposed power line routing or substation location showing populated areas, parks, recreational areas, scenic areas, and existing electrical transmission or power lines within 300 feet of the proposed route or substation.**

- Locations of the GKR Project alignment, which generally includes the locations where work would be done, are illustrated in PEA Figures/Figure sets 3.1-1 (“Project Overview by Segment”), 3.2-1a-b (“Existing System” and “Proposed System”), 3.5-1 (“Staging Areas”) and 3.5-3 (“Telecommunications Underground Routes”).

- Maps and aerial photographs showing populated areas, parks, recreational areas, scenic areas, and land uses in the vicinity of the GKR Project alignment are provided in PEA Figures/Figuresets 3.1-1 (“Project Overview by Segment”), 3.2-1a-b (“Existing System” and “Revised System”), 3.5-1 (“Staging Areas”), 3.5-3 (“Telecommunications Underground Routes”), 5.1-1a (“Photograph Viewpoint Locations”), 5.1-1b (“Viewshed Analysis”), 5.2-1 (“Farmlands”), 5.2-3 (“Forest Land, timberland, Timberland Production”), 5.4-1 (“Habitat Designations”), 5.4-2 (“Sensitive Plants”), 5.4-3 (“CNDDDB Plants”), 5.4-4 (“Sensitive Wildlife”), 5.4-5 (“CNDDDB Wildlife”), 5.4-6 (“Critical Habitat”), 5.11-1 (“Land Use Designations”), 5.11-2 (“Zoning Designations”), 5.14-1 (“Cities and Census Designated Places”), 5.15-1 (“Public Services in the Proposed Project Vicinity”), 5.16-1 (“Parks And Recreational Facilities”), and 5.17-1 (“Circulation System”).
- Existing electrical system components along the GKR Project alignment and within 300 feet thereof are described in PEA Section 3.1 (“Project Location”) and all subsections contained therein, and Section 3.2 (“Existing and Proposed System”) and all subsections contained therein, and are mapped/illustrated in Figures/Figuresets 3.1-1 (“Project Overview by Segment”), 3.2-1a (“Existing System”), 3.7-2 (“Telecommunications Underground Routes”), and Figure 4.1-1a (“Existing System”).

3. **Reasons for adoption of the power line route or substation location selected, including comparison with alternative routes or locations, including the advantages and disadvantages of each.**

- Reasons for the construction of the GKR Project, including the challenges and additional environmental impacts associated with alternative sites, can be

found in PEA Chapters 1, 2, 4 and 6. As discussed in the PEA, the GKR Project involves remediation of G.O. 95 clearance discrepancies on existing subtransmission infrastructure within the established GKR Project alignment. Substantial deviation from that alignment would not be a reasonable approach to accomplishing the GKR Project objectives.

4. *A listing of the governmental agencies with which proposed power line route or substation location reviews have been undertaken, including a written agency response to applicant's written request for a brief position statement by that agency. (Such listing shall include The Native American Heritage Commission, which shall constitute notice on California Indian Reservation Tribal governments.) In the absence of a written agency position statement, the utility may submit a statement of its understanding of the position of such agencies.*

- PEA Section 2.2 (“Pre-filing Consultation and Public Outreach Coordination”) and Appendix G to the PEA describe the outreach that SCE has conducted to date with lead agencies and other governmental agencies, including the CPUC, the United States Forest Service (“USFS”), the Counties of Kern and Los Angeles, and the Cities of Bakersfield and Arvin. No agency has expressed any objections with respect to the GKR Project.
- PEA Section 2.2.1.1.9 describes SCE’s efforts with respect to Native American Coordination. The Native American Heritage Commission (“NAHC”) maintains two databases to assist cultural resources specialists in identifying cultural resources of concern to California Native Americans. On January 23, 2020, Material Culture Consulting contacted the NAHC to obtain information about known cultural and tribal cultural resources and request a list of Native American tribal representatives who may have a cultural

affiliation with the proposed project area. The NAHC responded on February 13, 2020 stating that the Sacred Lands File (“SLF”) database resulted in negative results for previously identified sacred sites in the vicinity of the GKR project. The NAHC provided a list of 26 Native American groups or individuals as contacts who may have knowledge of cultural resources within or adjacent to the GKR project area. SCE sent a project mailer to these organizations and individuals in October 2021. Additional information is included in Appendix E to the PEA.

5. ***A PEA or equivalent information on the environmental impact of the project in accordance with the provisions of CEQA and this Commission’s Rules of Practice and Procedure Rule 2.4 [formerly 17.1 and 17.3]. If a PEA is filed, it may include the data described in Items a. through d. above.***

- The PEA is attached to this Application.

G. Compliance with G.O. 131-D, Section X

G.O. 131-D, Section X, requires applications for a PTC to describe measures taken to reduce potential exposure to electric and magnetic fields (“EMF”) generated by the proposed facilities. A complete description of EMF-related issues is contained in SCE’s EMF Field Management Plan (“FMP”) for the GKR Project, which is attached as APPENDIX F to this Application.

H. Compliance with Rule 2.1(c)

In compliance with Rule 2.1(c) of the Commission’s Rules of Practice and Procedure (California Code of Regulations, Title 20), SCE is required to state in this Application “[t]he proposed category for the proceeding, the need for hearing, the issues to be considered including relevant safety considerations, and a proposed schedule.” SCE proposes to categorize this Application as a rate-setting proceeding. SCE believes that a hearing will not be necessary. This proceeding involves the Commission’s: (1) environmental review of the GKR Project in

compliance with G.O. 131-D and CEQA; and (2) issuance of a PTC authorizing SCE to construct the GKR Project.

Without the GKR Project, clearance discrepancies would remain on the GKR circuits. Failing to remediate these known discrepancies and leaving the GKR circuits as is could present service reliability risks to SCE's system, and public safety risks under certain conditions.

SCE suggests the following proposed schedule for this Application:

Date	Event
February 2022	Application Filed
June 2022	Application Deemed Complete
July 2022	Initial Study Issued
March 2023	Draft CEQA Document Issued
June 2023	Final CEQA Document Issued
November 2023	Proposed Decision Issued
January 2024	Final Decision

I. Statutory Authority

This Application is made pursuant to the provisions of CEQA, G.O. 131-D, the Commission's Rules of Practice and Procedure, and prior orders and resolutions of the Commission.

J. Public Notice

Pursuant to G.O. 131-D, Section XI.A, notice of this Application shall be given: (1) to certain public agencies and legislative bodies; (2) to owners of property located on or within 300 feet of the GKR Project alignment; (3) by advertisement in a newspaper or newspapers of general circulation; and (4) by posting a notice on-site and off-site at the project location. SCE has given, or will give, proper notice within the time limits prescribed in GO 131- D. A copy of the Notice of Application for a Permit to Construct and list of newspapers which will publish the

notice are contained in APPENDIX D. A copy of the Certificate of Service of Notice of Application for a Permit to Construct and a service list are contained in APPENDIX E.

K. Supporting Appendices and Attachments

Appendices A through F and the PEA listed below are made a part of this Application:

<u>APPENDIX A</u>	Balance Sheet and Statement of Income as of December 31, 2021.
<u>APPENDIX B</u>	List of Counties and Municipalities Served by SCE
<u>APPENDIX C</u>	Gorman-Kern River Project Schedule
<u>APPENDIX D</u>	Notice of Application for a Permit to Construct
<u>APPENDIX E</u>	Certificate of Service of Notice of Application for a Permit to Construct
<u>APPENDIX F</u>	Field Management Plan
ATTACHMENT	Southern California Edison's Gorman-Kern River Project PEA

L. Compliance with Rule 2.5

Rule 2.5 of the Commission's Rules of Practice and Procedure provides that an applicant include a deposit to be applied to the costs the Commission incurs to prepare a negative declaration or an environmental impact report when the Commission is acting as the lead agency pursuant to CEQA. In accordance with Rule 2.5, SCE is enclosing a deposit to be applied to the costs the Commission incurs to prepare a negative declaration or an environmental impact report for the GKR Project.

M. Request for Ex Parte Relief

SCE requests that the relief requested in this Application be provided *ex parte* as provided for in G.O. 131-D, Section IX.B.6.

N. Request for Timely Relief

SCE requests the Commission issue a decision within the time limits prescribed by Government Code Section 65920 *et seq.* (the Permit Streamlining Act) as provided for in G.O. 131-D, Section IX.B.6.

V.

CONCLUSION

SCE respectfully requests the Commission issue a PTC authorizing SCE to construct the GKR Project described in this Application and PEA. SCE further requests that the relief be provided *ex parte* and within the time limits prescribed by the Permit Streamlining Act.

Respectfully submitted,

SOUTHERN CALIFORNIA EDISON COMPANY

/s/ Heather Rivard

By: Heather D Rivard

Senior Vice President Transmission & Distribution

/s/ Lauren P. Goschke

By: Lauren P. Goschke

Attorney for

SOUTHERN CALIFORNIA EDISON COMPANY

2244 Walnut Grove Ave. Post Office Box 800

Rosemead, California 91770

Telephone: (626) 302-4906

E-mail: Lauren.P.Goschke@sce.com

February 28, 2022

VERIFICATION

I am an officer of the applicant corporation herein, and am authorized to make this verification on its behalf. I am informed and believe that the matters stated in the foregoing document are true.

I declare under penalty of perjury that the foregoing is true and correct.

Executed this **18th day of February, 2022**, at Rosemead, California.

/s/ Heather Rivard

By: Heather D Rivard
Senior Vice President Transmission & Distribution
SOUTHERN CALIFORNIA EDISON COMPANY

Appendix A

Balance Sheet and State of Income as of December 31, 2021

SOUTHERN CALIFORNIA EDISON COMPANY

(h) A balance sheet as of the latest available date, together with an income statement covering the period from close of last year for which an annual report has been filed with the Commission to the date of the balance sheet attached to the application.

STATEMENT OF INCOME
TWELVE MONTHS ENDED DECEMBER 31, 2021

(In millions)

OPERATING REVENUE	<u>\$ 14,874</u>
OPERATING EXPENSES:	
Purchase power and fuel	5,540
Operation and maintenance	3,588
Wildfire-related claims, net of insurance recoveries	1,276
Wildfire insurance fund expense	215
Depreciation and amortization	2,216
Property and other taxes	462
Impairment and other expense (income)	69
Other operating income	(2)
Total operating expenses	<u>13,364</u>
OPERATING INCOME	1,510
Interest expense	(791)
Other income	233
INCOME BEFORE TAXES	<u>952</u>
Income tax expense	17
NET INCOME	<u>935</u>
Less: Preferred and preference stock dividend requirements	<u>106</u>
NET INCOME AVAILABLE FOR COMMON STOCK	<u><u>\$ 829</u></u>

SOUTHERN CALIFORNIA EDISON COMPANY

BALANCE SHEET
DECEMBER 31, 2021
ASSETS
(in millions)

TWELVE MONTHS ENDED DECEMBER 31, 2021

Utility plant, at original cost	\$ 57,714
Less- accumulated provision for depreciation and decommissioning	11,407
	<u>46,307</u>
Construction work in progress	4,067
Nuclear fuel - at amortized cost	123
	<u>50,497</u>

OTHER PROPERTY AND INVESTMENTS:

Nonutility property - less accumulated depreciation of \$88	196
Nuclear decommissioning trusts	4,870
Other investments	34
	<u>5,100</u>

CURRENT ASSETS:

Cash and equivalents	279
Receivables, less allowances of \$193 for uncollectible accounts	1,393
Accrued unbilled revenue	794
Inventory	420
Prepaid expenses	257
Regulatory assets	1,778
Wildfire insurance fund contributions	204
Other current assets	222
	<u>5,347</u>

DEFERRED CHARGES:

Receivables, less allowance of \$116 for uncollectible accounts	122
Regulatory assets (Includes \$325 related to VIEs)	7,660
Wildfire insurance fund contributions	2,359
Operating lease right-of-use assets	1,925
Long-term insurance receivable	75
Other long-term assets	1,453
	<u>13,594</u>
	<u>\$ 74,538</u>

SOUTHERN CALIFORNIA EDISON COMPANY

BALANCE SHEET
DECEMBER 31, 2021
CAPITALIZATION AND LIABILITIES
(in millions)

TWELVE MONTHS ENDED DECEMBER 31, 2021

CAPITALIZATION:

Common stock	2,168
Additional paid-in capital	7,033
Accumulated other comprehensive loss	(32)
Retained earnings	8,721
Common shareholder's equity	<u>17,890</u>
Long-term debt (Includes \$314 related to VIEs)	21,733
Preferred stock	1,945
Total capitalization	<u>41,568</u>

CURRENT LIABILITIES:

Short-term debt	2,354
Current portion of long-term debt	377
Accounts payable	1,999
Wildfire-related claims	131
Customer deposits	193
Regulatory liabilities	603
Current portion of operating lease liabilities	582
Other current liabilities	1,631
	<u>7,870</u>

DEFERRED CREDITS:

Deferred income taxes and credits	7,181
Pensions and benefits	111
Asset retirement obligations	2,772
Regulatory liabilities	8,981
Operating lease liabilities	1,343
Wildfire-related claims	1,733
Other deferred credits and other long-term liabilities	2,979
	<u>25,100</u>

\$ 74,538

Appendix B

List of Counties and Municipalities Served by SCE

INCORPORATED CITIES AND COUNTIES SERVED BY SCE

COUNTIES

Fresno	Kern	Madera	Riverside	Tuolumne
Imperial	Kings	Mono	San Bernardino	Tulare
Inyo	Los Angeles	Orange	Santa Barbara	Ventura

CITIES

Adelanto	Commerce	Hesperia	Lynwood	Porterville	Tehachapi
Agoura Hills	Compton	Hidden Hills	Malibu	Rancho Cucamonga	Temecula
Alhambra	Corona	Highland	Mammoth Lakes	Rancho Mirage	Temple City
Aliso Viejo	Costa Mesa	Huntington Beach	Manhattan Beach	Rancho Palos Verdes	Thousand Oaks
Apple Valley	Covina	Huntington Park	Maywood	Rancho Santa Margarita	Torrance
Arcadia	Cudahy	Indian Wells	McFarland	Redlands	Tulare
Artesia	Culver City	Industry	Menifee	Redondo Beach	Tustin
Avalon	Cypress	Inglewood	Mission Viejo	Rialto	Twentynine Palms
Baldwin Park	Delano	Irvine	Monrovia	Ridgecrest	Upland
Barstow	Desert Hot Springs	Irwindale	Montclair	Rolling Hills	Ventura
Beaumont	Diamond Bar	Jurupa Valley	Montebello	Rolling Hills Estates	Victorville
Bell	Downey	La Canada Flintridge	Monterey Park	Rosemead	Villa Park
Bell Gardens	Duarte	La Habra	Moorpark	San Bernardino	Visalia
Bellflower	Eastvale	La Habra Heights	Moreno Valley	San Dimas	Walnut
Beverly Hills	El Monte	La Mirada	Murrieta	San Fernando	West Covina
Bishop	El Segundo	La Palma	Newport Beach	San Gabriel	West Hollywood
Blythe	Exeter	La Puente	Norco	San Jacinto	Westlake Village
Bradbury	Farmersville	La Verne	Norwalk	San Marino	Westminster
Brea	Fillmore	Laguna Beach	Ojai	Santa Ana	Whittier
Buena Park	Fontana	Laguna Hills	Ontario	Santa Barbara	Wildomar
Calabasas	Fountain Valley	Laguna Niguel	Orange	Santa Clarita	Woodlake (Three Rivers)
California City	Fullerton	Laguna Woods	Oxnard	Santa Fe Springs	Ventura
Calimesa	Garden Grove	Lake Elsinore	Palm Desert	Santa Monica	Yorba Linda
Camarillo	Gardena	Lake Forest	Palm Springs	Santa Paula	Yucaipa
Canyon Lake	Glendora	Lakewood	Palmdale	Seal Beach	Yucca Valley
Carpinteria	Goleta	Lancaster	Palos Verdes Estates	Sierra Madre	
Carson	Grand Terrace	Lawndale	Paramount	Signal Hill	
Cathedral City	Hanford	Lindsay	Perris	Simi Valley	
Cerritos	Hawaiian Gardens	Loma Linda	Pico Rivera	South El Monte	
Chino	Hawthorne	Lomita	Placentia	South Gate	
Chino Hills	Hemet	Long Beach	Pomona	South Pasadena	
Claremont	Hermosa Beach	Los Alamitos	Port Hueneme	Stanton	

Appendix C

Gorman-Kern River Project Schedule

Proposed Gorman-Kern River 66kV Project Schedule

Date	Event
February 2022	Application Filed
June 2022	Application Deemed Complete
July 2022	Initial Study Issued
March 2023	Draft CEQA Document Issued (DEIR)
June 2023	Final CEQA Document Issued (FEIR)
November 2023	Proposed Decision Issued
January 2024	Final Decision
November 2024	Commence Construction
October 2026	Commence Operation

Appendix D

Notice of Application for a Permit to Construct

NOTICE OF APPLICATION FOR A PERMIT TO CONSTRUCT

GORMAN-KERN RIVER PROJECT

Filing Date: February 28, 2022

Proposed Project: Southern California Edison Company (SCE) has filed an application with the California Public Utilities Commission (CPUC) for a Permit to Construct (PTC) the Gorman Kern River Project (GKR Project). The primary purpose of the GKR Project is to ensure compliance with standards contained in CPUC General Order (GO) 95 through remediating physical clearance discrepancies identified on existing 66 kilovolt (kV) subtransmission lines and to address reliability concerns related to the condition of existing infrastructure on the affected subtransmission lines. In particular, GO 95 Rules 37 through 39 specify minimum vertical and horizontal clearances that must be maintained between an electrical conductor and other conductors, or between a conductor and the ground, buildings, and a variety of other objects. In 2006, SCE identified discrepancies along many of its circuits where minimum clearances are not being met compared to what is required by G.O. 95. The GKR Project will rectify approximately 199 such discrepancies by rebuilding a substantial portion of the existing subtransmission lines, and replacing/modifying individual existing poles and reusing individual existing subtransmission structures along portions of existing subtransmission lines along the following 66 kV line circuits:

- Banducci-Kern River 1 66 kV Subtransmission Line
- Frazier Park-Gorman 66 kV Subtransmission Line
- Gorman-Kern River 1 66 kV Subtransmission Line

These circuits traverse southern Kern County, the City of Arvin, and northern Los Angeles County.

Project Description: SCE has identified a proposed scope of work for the GKR Project to consist of the following components:

- **Subtransmission Lines**
 - Remediate discrepancies along approximately 65 miles of existing 66 kV subtransmission circuits by conducting work along the following 5 line segments:
 - In Segment 1 (extending approximately 20.4 miles from Kern River 1 Substation in a southerly direction), removing and replacing existing subtransmission infrastructure with approximately 154 new structures and modifying six structures; and replacing existing conductor with Aluminum Core Composite Conductor (ACCC) and/or Aluminum Core Steel Reinforced (ACSR).
 - In Segment 2 (extending approximately 26.5 miles from the end of Segment 1 in a southerly direction), removing and replacing existing subtransmission infrastructure with approximately 194 new structures; and replacing conductors with ACCC and/or ACSR.
 - In Segment 3 (extending approximately 4.1 miles from the end of Segment 2 to Gorman Substation), removing and replacing existing subtransmission infrastructure with approximately 57 new structures; and replacing existing conductors with ACCC and/or ACSR.
 - In Segment 4 (extending approximately 11.3 miles from the end of Segment 1 in an easterly direction), removing and replacing existing subtransmission infrastructure with 73 new structures; and replacing existing conductor with ACCC and/or ACSR.
 - In Segment 5 (extending east approximately 3 miles from the eastern portion of Segment 4 to Banducci Substation), replacing approximately two structures and transferring existing conductor to the new structures.

- **Distribution**
 - In Segment 5, transfer the existing distribution circuits and appurtenances to the new replacement structures.
- **Telecommunications/System Protection**
 - Install approximately 62 miles of Optical Ground Wire (OPGW) and/or All Dielectric Self-Supporting (ADSS) on replacement structures in Segments 1, 2, 3, and 4.
 - In Segments 1 and 3, install approximately 860-feet of fiber optic cable underground within existing substations, and approximately 445 feet underground outside existing substations.
 - Install approximately 3 miles of ADSS in Segment 5.
 - Install system protection and telecommunications-associated equipment at existing substations.
- **Substations**
 - Replace existing relays with new relays at existing substations.

Electric and Magnetic Fields (EMF) Compliance: The CPUC requires utilities to employ “no-cost” and “low-cost” measures to reduce public exposure to magnetic fields. In accordance with “Electromagnetic Field (EMF) Design Guidelines” (Decisions 93-11-013 and 06-01-042.), the GKR Project would implement a combination of the following recommended measures:

- Configure pole heads in a vertical or delta configuration on the proposed subtransmission line for magnetic field reduction.
- Utilize structure heights that meet or exceed EMF preferred design criteria of SCE.
- Change the phase arrangement as the circuit enters the substation thereby changing the final phasing to reduce the magnetic field.

Environmental Review: SCE has prepared a Proponent’s Environmental Assessment (PEA) of potential environmental impacts created by the construction and operation of the Proposed Project. The PEA concludes that with the implementation of Applicant-Proposed Measures, all potentially significant environmental effects associated with the Proposed Project would be reduced to less than significant levels.

Pursuant to the California Environmental Quality Act (CEQA), the CPUC’s Energy Division will conduct an independent review of the Proposed Project’s environmental impacts. Depending on the results of its review, the Energy Division is expected to issue a Mitigated Negative Declaration that the Proposed Project will not result in any significant environmental impacts after mitigation, or an environmental impact report (EIR) identifying the significant environmental impacts and mitigation measures and alternatives to avoid or reduce them.

Public Participation:

The public may participate in the environmental review by submitting comments on the Notice of Intent to Approve a Negative Declaration, or on the Notice of Preparation of the EIR and draft EIR, and by participating in any scoping meetings or public meetings that may be conducted. For information on the environmental review, contact the CPUC’s Energy Division at enviroteam@cpuc.ca.gov or (415) 703-2126.

Persons wishing to present testimony in evidentiary hearings and/or legal briefing on all other issues, including EMF compliance, require party status. Persons may obtain party status by filing a protest to the application by **March 30, 2022**, in compliance with CPUC General Order 131-D and the CPUC's Rules of Practice and Procedure Rule 2.6, or by making a motion for party status at any time in compliance with Rule 1.4 (posted at www.cpuc.ca.gov).

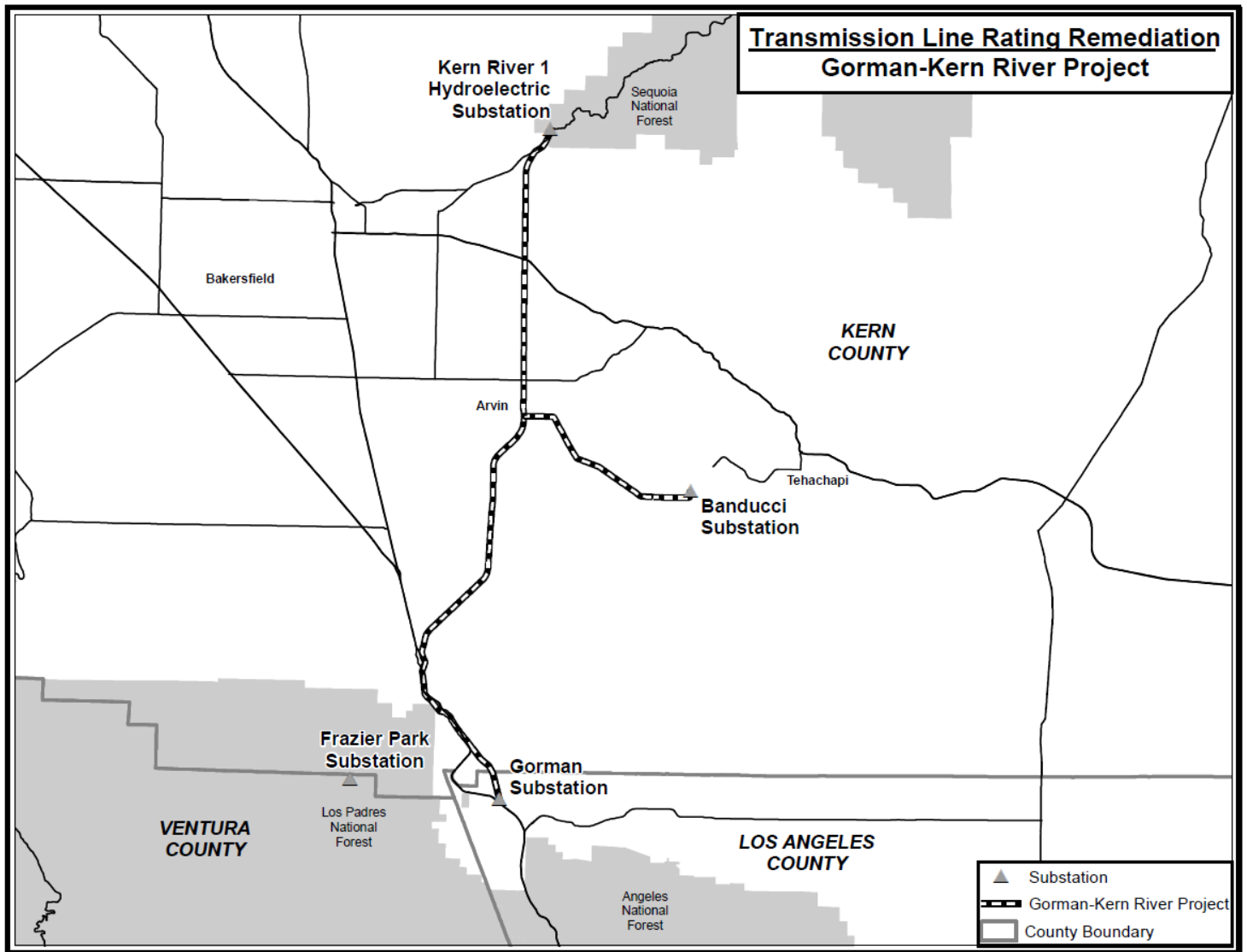
The public may communicate their views regarding the application by writing to the CPUC at 505 Van Ness Avenue, San Francisco, CA 94102, or by emailing the Public Advisor at public.advisor@cpuc.ca.gov. In addition, the CPUC may, at its discretion, hold a public participation hearing in order to take oral public comment.

Document Subscription Service: The CPUC's free online subscription service sends subscribers an email notification when any document meeting their subscription criteria is published on the CPUC's website, such as documents filed in a CPUC proceeding (e.g., notices of hearings, rulings, briefs, and decisions). To sign up to receive notification of documents filed in this proceeding (or other CPUC matters), visit www.cpuc.ca.gov/subscription.

Contacts: For assistance from the CPUC, please contact the Public Advisor in San Francisco at (415) 703-2074 (public.advisor@cpuc.ca.gov) or toll free at (866) 849-8391.

To review a copy of SCE's application, or to request further information about the Proposed Project, please contact the SCE Government Affairs representatives listed below. You can also visit the Project website at <http://sce.com/GKRProject>

Cal Rossi	David A. Ford
Government Relations Mgr.	Government Relations Mgr.
SCE Local Public Affairs	SCE Local Public Affairs
Kern County	Los Angeles County
421 J Street	25625 W. Rye Canyon Rd
Tehachapi, CA 93561	Valencia, CA 91355
calvin.rossi@sce.com	david.a.ford@sce.com
(559) 331-4555	(310) 608-5103



List of Newspapers with Which Publication of Notice was Arranged by SCE

Bakersfield Californian

3700 Pegasus Drive
Bakersfield, CA, 93308
T: (661) 395-7500

Mountain Enterprise

PO Box 610
Frazier Park, CA, 93225
T: (661) 245-3794

Appendix E

Certificate of Service of Notice of Application for a Permit to Construct

**BEFORE THE PUBLIC UTILITIES COMMISSION OF THE
STATE OF CALIFORNIA**

In the Matter of the Application of SOUTHERN
CALIFORNIA EDISON COMPANY (U 338-E)
for a Permit to Construct Electrical Facilities
With Voltages Between 50 kV and 200 kV:
Gorman-Kern River Project.

A.22-02-XXX

CERTIFICATE OF SERVICE

I hereby certify that, pursuant to the Commission's Rules of Practice and Procedure, I have this day served a true copy of the **NOTICE OF APPLICATION OF SOUTHERN CALIFORNIA EDISON COMPANY (U 338-E) FOR A PERMIT TO CONSTRUCT ELECTRICAL FACILITIES WITH VOLTAGES BETWEEN 50 kV AND 200 kV: GORMAN-KERN RIVER PROJECT**, on all parties identified on the attached lists.

Service was effected by one or more means indicated below:

- ☒ Placing the copies in sealed envelopes and causing such envelopes to be delivered via USPS First Class Mail.

Lists: Gorman-Kern River Project Agency and Interested Parties List
Gorman-Kern River Project 300 Foot List

Executed this **February 28, 2022**, at Rosemead, California.

/s/ Kelly Morikawa Kwong

Kelly Morikawa Kwong
Legal Administrative Assistant
SOUTHERN CALIFORNIA EDISON COMPANY
2244 Walnut Grove Avenue
Post Office Box 800
Rosemead, California 91770

Gorman-Kern River Project
Agency/Interested Party Mailing List for Notice of Application

City of Arvin		
Jerry Breckinridge, City Manager City of Arvin 200 Campus Drive Arvin, CA 93203	Mitzy Cuxum, Senior Planner Community Development City of Arvin 141 Plumtree Drive Arvin, CA 93203	Gerardo Tinoco, Chair Planning Commission City of Arvin P.O. Box 548 Arvin, CA 93203
Olivia Trujillo, Mayor City of Arvin P.O. Box 548 Arvin, CA 93203	The City Council City of Arvin P.O. Box 548 Arvin, CA 93203	
City of Bakersfield		
Christian Clegg, City Manager City of Bakersfield 1600 Truxton Ave, 5 th Floor Bakersfield, CA 93301	Paul Johnson, Planning Director Development Services City of Bakersfield 1715 Chester Ave Bakersfield, CA 93301-5210	Larry Koman, Chair Planning Commission City of Bakersfield 1715 Chester Ave Bakersfield, CA 93301-5210
Karen K. Goh, Mayor City Council City of Bakersfield 1501 Truxtun Ave Bakersfield, CA 93301	Ken Weir, Vice Mayor City Council, Ward 3 City of Bakersfield 1501 Truxtun Ave Bakersfield, CA 93301	
City of Tehachapi		
Greg Garrett, City Manager City of Tehachapi 115 S Robinson St Tehachapi, CA 93561	Jay Schlosser, Director Development Services City of Tehachapi 115 S Robinson St Tehachapi, CA 93561	Kim Burnell, Sr Planner Planning Department City of Tehachapi 115 S Robinson St Tehachapi, CA 93561
Phil Smith, Mayor City Council City of Tehachapi 115 S Robinson St Tehachapi, CA 93561	Charles White, Chairperson Planning Commission City of Tehachapi 115 S Robinson St Tehachapi, CA 93561	
Kern County		
Ryan J. Alsop County Administrative Officer Kern County Administrative Office 1115 Truxtun Avenue, 5 th Floor Bakersfield, CA 93301	Lorelei H. Oviatt, Director Planning & Natural Resources Dept. Kern County Public Services Building 2700 "M" Street., Suite 100 Bakersfield, CA 93301-2370	Joe Ashley, Chair Planning Commission Kern County Public Services Building 2700 "M" Street., Suite 100 Bakersfield, CA 93301-2370
Phillip Peters, Chairman Board of Supervisors, District 1 Kern County Administrative Office 1115 Truxtun Ave, 5 th Floor Bakersfield, CA 93301	Zack Scrivner Board of Supervisors, District 2 Kern County Administrative Office 1115 Truxtun Ave, 5 th Floor Bakersfield, CA 93301	David Couch Board of Supervisors, District 4 Kern County Administrative Office 1115 Truxtun Ave, 5 th Floor Bakersfield, CA 93301

Gorman-Kern River Project
Agency/Interested Party Mailing List for Notice of Application

Los Angeles County		
Fesia Davenport Chief Executive Officer Los Angeles County 500 W. Temple St., Rm 713 Los Angeles, CA 90014	Amy J. Bodek, Director Regional Planning Los Angeles County 320 W. Temple St., 13 th Floor Los Angeles, CA 90014	Celia Zavala, Executive Officer Board of Supervisors Los Angeles County 500 W. Temple St., Ste 383 Los Angeles, CA 90014
Hilda L. Solis, Chair Board of Supervisors Los Angeles County 500 W. Temple St., Ste 383 Los Angeles, CA 90014	Kathryn Barger, 5 th District Board of Supervisors Los Angeles County 500 W. Temple St., Ste 383 Los Angeles, CA 90014	Alejandrina Baldwin, SEATAC Coordinator Los Angeles County Department of Regional Planning Significant Ecological Areas Technical Advisory Committee 320 W. Temple St., 13th Floor Los Angeles, CA 90014
State and Federal Agencies		
CPUC Energy Division		
Edward Randolph, Energy Div. Dir California Public Utilities Commission 505 Van Ness Avenue San Francisco, CA 94102	Allison Brown, CPUC Public Advisor California Public Utilities Commission 505 Van Ness Avenue San Francisco, CA 94102	
California Energy Commission		
Drew Bohan, Executive Director California Energy Commission 1516 Ninth Street Sacramento, CA 95814		
State Department of Transportation (Caltrans)		
Toks Omishakin, Director California Dept of Transportation P.O. Box 942873 Sacramento, CA 94273-0001		
Caltrans Aeronautics Division		
Amy Choi, Chief California Dept of Transportation Div. of Aeronautics MS 40 P.O. Box 942874 Sacramento, CA 94274-0001		
Local Caltrans District Offices		
Gayle Rosander External Project Liaison California Department of Transportation - District 9 500 South Main Street Bishop, CA 93514	Christian Lukens Information Officer District 6 Fresno/Bakersfield 1352 W. Olive Ave Fresno, CA 93728	Lauren Wonder Public Information Officer External Project Liaison District 7 Los Angeles 100 South Main St. Los Angeles, CA 90012
Air Quality Management District (AQMD) and Air Pollution Control District (APCD)		
South Coast Air Quality Management District 21865 Copley Dr Diamond Bar, CA 91765	Eastern Kern Air Pollution Control District, 2700 M Street, Suite 302, Bakersfield, CA 93301	San Joaquin Valley Air Pollution Control District Southern Region 34946 Flyover Ct Bakersfield, CA 93308

Gorman-Kern River Project
Agency/Interested Party Mailing List for Notice of Application

Secretary of the Resources Agency/Chair of California Air Resources Board		
Wade Crowfoot, Secretary California Resources Agency 1416 Ninth St. - Suite 1311 Sacramento, CA 95814	Liane M. Randolph, Chair California Air Resources Board 1001 I Street Sacramento, CA 95814	
California Department of Fish and Wildlife		
Annee Ferranti – Environmental Program Manager Region 4 Office 1234 E. Shaw Avenue Fresno, CA 93710	Erinn Wilson – Environmental Program Manager Region 5 Office 3883 Ruffin Road San Diego, CA 92123	
Department of Health Service		
Will Lightbourne, Director California Department of Health Care Services P.O. Box 997413, MS 0000 Sacramento, CA 95899-7413		
State Water Resources Control Board		
State Executive Director Eileen Sobeck 1001 I Street Sacramento, CA 95814	Central Valley Regional Water Quality Control Board Patrick Pulupa, Executive Officer 11020 Sun Center Drive, #200 Rancho Cordova, CA 95670-6114	Clay Rogers, Asst Executive Officer Fresno Office 1685 "E" Street Fresno, CA 93706-2007
US Forest Service		
Los Padres National Forest Mt Pinos, Ojai, & Santa Barbara Ranger Districts 3505 Paradise Road Santa Barbara, CA 93105	Sequoia National Forest Kern River Ranger District 105 Whitney Road Kernville, CA 93238	
SHPO/FAA/USACE		
U.S. Army Corps of Engineers, Sacramento District California Regulatory Branch Sacramento District HQ Office 1325 J Street, Room 1350 Sacramento, CA 95814	U.S. Army Corps of Engineers, Los Angeles District David J. Castanon 915 Wilshire Blvd. Los Angeles, CA 90017	California Office of Historic Preservation Julianne Polanco, State Historic Preservation Officer 1725 23rd Street, Suite 100 Sacramento, CA 95816
FAA Vivian Vilaro Obstruction Evaluation Group Air Traffic Organization 777 S Aviation Blvd, Suite 150 El Segundo, CA 90245		
Interested Parties		
Derek C. Abbott Sr Vice President, Real Estate Tejon Ranch Company 4436 Lebec Road Tejon Ranch, CA 93243	Butch Reyburn President, Board of Directors Bear Valley Springs Association 29541 Rolling Oak Dr Tehachapi, CA 93561	Stallion Springs Community Services District 27800 Stallion Springs Dr Stallion Springs, CA 93561
Dr. Terry Warsaw 20211 W Valley Bl Tehachapi, CA 93561	Mark Marquez, President Arvin Chamber of Commerce PO Box 645 Arvin, CA 93203	Nick Ortiz, President/CEO Bakersfield Chamber of Commerce PO Box 1947 Bakersfield, CA 93303

Gorman-Kern River Project
Agency/Interested Party Mailing List for Notice of Application

Ida Perkins, President Tehachapi Chamber of Commerce PO Box 401 Tehachapi, CA 93581	George E Jennings Smart Growth Tehachapi Valleys PO Box 1894 Tehachapi, CA 93581	John Monroe III President Kern County Farm Bureau PO Box 71498 Bakersfield, CA 93387
Brian Cates, Warden Tehachapi State Prison PO Box 1031 Tehachapi, CA 93581	Chuck Nielson Fairview Ranches Owners Assoc 20252 Pegasus Street Tehachapi, CA 93561	
Tribal		
Juan Lozada, Chief Tejon Indian Tribe 4941 David Rd Bakersfield, CA 93307	Kenneth Woodrow, Chairperson Wuksache Indian Tribe/Eshom Valley Band 1179 Rock Haven Ct. Salinas, CA 93906	Mona Tucker, Chairperson yak tityu tityu yak tilhini – Northern Chumash Tribe 660 Camino Del Rey Arroyo Grande, CA 93420
Eleanor Arrellanes Barbareno/ Ventureno Band of Mission Indians P.O. Box 5687 Ventura, CA 93005	James Rambeau, Chairperson Big Pine Paiute Tribe of the Owens Valley P.O. Box 700 Big Pine, CA 93513	Patrick Tumamait Barbareno/ Ventureno Band of Mission Indians 992 El Camino Corto Ojai, CA 93023
Julio Quair, Chairperson Chumash Council of Bakersfield 729 Texas Street Bakersfield, CA 93307	Julie Tumamait-Stenslie, Chairperson Barbareno/Ventureno Band of Mission Indians 365 North Poli Ave Ojai, CA 93023	Gino Altamirano, Chairperson Coastal Band of the Chumash Nation P.O. Box 4464 Santa Barbara, CA 93140
Raudel Banuelos Barbareno/ Ventureno Band of Mission Indians 331 Mira Flores Camarillo, CA 93012	Robert Robinson, Chairperson Kern Valley Indian Community P.O. Box 1010 Lake Isabella, CA 93283	Danelle Gutierrez, Tribal Historic Preservation Officer Big Pine Paiute Tribe of the Owens Valley P.O. Box 700 Big Pine, CA 93513
Julie Turner, Secretary Kern Valley Indian Community P.O. Box 1010 Lake Isabella, CA 93240	Sally Manning, Environmental Director Big Pine Paiute Tribe of Owens Valley P.O. Box 700 Big Pine, CA 93513	Brandy Kendricks Kern Valley Indian Community 30741 Foxridge Court Tehachapi, CA 93561
Delia Dominguez, Chairperson Kitanemuk & Yowlumne Tejon Indians 115 Radio Street Bakersfield, CA 93305	Colin Rambo Tejon Indian Tribe 1731 Hasti-Acres Drive, Suite 108 Bakersfield, CA 93309	Fred Collins, Spokesperson Northern Chumash Tribal Council P.O. Box 6533 Los Osos, CA 93412
Octavio Escobedo, Chairperson Tejon Indian Tribe 1731 Hasti-acres Drive, Suite 108 Bakersfield, CA 93309	Donna Yocum, Chairperson San Fernando Band of Mission Indians P.O. Box 221838 Newhall, CA 91322	Robert L. Gomez, Chairperson Tubatulabals of Kern Valley P.O. Box 226 Lake Isabella, CA 93240

Gorman-Kern River Project
Agency/Interested Party Mailing List for Notice of Application

Mark Vigil, Chief San Luis Obispo County Chumash Council 1030 Ritchie Road Grover Beach, CA 93433	Joey Garfield, Tribal Archaeologist Tule River Indian Tribe P.O. Box 589 Porterville, CA 93258	Neil Peyron, Chairperson Tule River Indian Tribe P.O. Box 589 Porterville, CA 93258
Kerri Vera, Environmental Department Tule River Indian Tribe P.O. Box 589 Porterville, CA 93258		

APN	OWNER_NAME_1	OWNER_NAME_2	ADDRESS	CITY	STATE	ZIP
094-070-02-00-2	U S A	Sequoia National Forest	1839 S. Newcomb	Porterville	CA	93257
094-070-05-00-1	U S A	Sequoia National Forest	1839 S. Newcomb	Porterville	CA	93257
094-070-07-00-7	U S A	Sequoia National Forest	1839 S. Newcomb	Porterville	CA	93257
094-070-09-00-3	KERN & TULE HYDRO LLC		711 E TURTLEPOINT DR	IVINS	UT	84738
177-010-08-00-6	FOSTER JOHN R & JANET E		2718 N BAKER ST	BAKERSFIELD	CA	93305
177-010-11-01-3	GIUMARRA FARMS INC		PO BOX 1969	BAKERSFIELD	CA	93303
177-010-25-01-4	PIERCE KATHLEEN A SEPARATE PROP TRUST	PIERCE KATHLEEN TRUS	9112 S UNION AV	BAKERSFIELD	CA	93307
177-010-26-01-7	PIERCE KATHLEEN A SEPARATE PROP TRUST	PIERCE KATHLEEN TRUS	9112 S UNION AV	BAKERSFIELD	CA	93307
177-010-28-00-4	IRON DOOR PROP 3		6150 MALAGA RD	BAKERSFIELD	CA	93307
177-010-37-00-0	GIUMARRA BROTHERS RANCHES		P O BX 1969	BAKERSFIELD	CA	93303
177-010-51-00-0	SANCHEZ FRANCISCO JAVIER		1008 PADRE ST	BAKERSFIELD	CA	93307
177-220-05-00-8	GIUMARRA BROS FRUIT CO		P O BOX 1969	BAKERSFIELD	CA	93303
177-220-31-00-3	GIUMARRA FARMS INC		PO BOX 1969	BAKERSFIELD	CA	93303
177-220-32-00-6	GIUMARRA FARMS INC		PO BOX 1969	BAKERSFIELD	CA	93303
177-230-24-00-6	HUNTER EDISON LAND & RENEWABLES LLC		PO BOX 13550	BAKERSFIELD	CA	93389
177-230-61-00-3	CORSARO DOMINICK FAMILY TRUST	GIUMARRA SALVADORE T	POBOX 1969	BAKERSFIELD	CA	93303
177-230-62-00-6	CORSARO DOMINICK FAMILY TRUST	GIUMARRA SALVADORE T	POBOX 1969	BAKERSFIELD	CA	93303
178-180-06-00-7	DJGJ FAMILY L P		PO BOX 65	EDISON	CA	93220
178-180-07-00-0	DJGJ FAMILY L P		PO BOX 65	EDISON	CA	93220
178-180-10-01-7	DJGJ FAMILY L P		PO BOX 65	EDISON	CA	93220
178-180-11-01-0	DJGJ FAMILY L P		PO BOX 65	EDISON	CA	93220
178-190-19-00-8	DJGJ FAMILY L P		PO BOX 65	EDISON	CA	93220
178-360-60-00-5	KIRSCHENMANN CHARLES A FAMILY TRUST	KIRSCHENMANN CHARLES	5500 MING AV	BAKERSFIELD	CA	33309
178-360-70-00-4	PLEDGER JERRY L & JEAN M		16861 MT VIEW RD	BAKERSFIELD	CA	93309
179-020-22-01-2	FARRELL FAMILY TRUST	FARRELL DANA SEARS &	12352 OBRAD DR	SARATOGA	CA	95070
179-020-23-00-6	UNION PACIFIC R/R CO	STOP 1610	1400 DOUGLAS ST	OMAHA	NE	68179
179-020-25-01-1	GIUMARRA BROS FRUIT CO		P O BOX 1969	BAKERSFIELD	CA	93303
179-020-64-00-5	GIUMARRA JOSEPH GRANDCHILDRENS TRUST		PO BOX 1969	BAKERSFIELD	CA	93303
179-020-65-00-8	GIUMARRA GEORGE SR TR	GIUMARRA SALVADORE T	P O BIN 1969	BAKERSFIELD	CA	93303
179-030-02-00-8	PETTIT MICHAEL PARKER SEPARATE PROP TRUST	PETTIT MICHAEL PARKE	15201 VIA MESSINA DR	BAKERSFIELD	CA	93306
179-030-04-01-3	GIUMARRA BROS FRUIT CO		P O BOX 1969	BAKERSFIELD	CA	93303
179-062-01-00-8	KEVIN & SANDRA JOHNSTON FAMILY L P		P O BOX 65	EDISON	CA	93220
179-062-10-00-4	KEVIN & SANDRA JOHNSTON FAMILY L P		P O BOX 65	EDISON	CA	93220
179-062-30-01-1	DJGJ FAMILY L P		PO BOX 65	EDISON	CA	93220
179-062-44-00-3	KEVIN & SANDRA JOHNSTON FAMILY L P		P O BOX 65	EDISON	CA	93220
179-102-02-00-2	KIRSCHENMANN CHUCK FAMILY TRUST	KIRSCHENMANN CHARLES	1033 TAM O SHANTER DR	BAKERSFIELD	CA	93309
179-102-03-00-5	SUNRIDGE VINEYARDS LP		441 VINELAND RD	BAKERSFIELD	CA	93307
179-102-04-00-8	SUNRIDGE VINEYARDS LP		441 VINELAND RD	BAKERSFIELD	CA	93307

APN	OWNER_NAME_1	OWNER_NAME_2	ADDRESS	CITY	STATE	ZIP
179-110-06-00-3	STATE OF CALIFORNIA	WILDFIFE CONSERVATIO	1807 13TH ST	SACRAMENTO	CA	95814
179-110-07-00-6	ORNELAS CAROLINA		6818 AZALEA AV	BAKERSFIELD	CA	93306
179-110-11-00-7	CALIENTE SAND & MINERAL CO INC		3920 MERCURY AV	BAKERSFIELD	CA	93308
179-110-18-01-7	DJGJ FAMILY L P		PO BOX 65	EDISON	CA	93220
179-110-19-00-1	DJGJ FAMILY L P		PO BOX 65	EDISON	CA	93220
179-110-32-00-8	GARCIA EDUARDO Z		380 TUCKER ST	ARVIN	CA	93203
179-110-34-00-4	COUNTY OF KERN		2700 M Street	BAKERSFIELD	CA	93301
189-010-20-00-7	WAY GIN LP		PO BOX 27	EDISON	CA	93220
189-010-60-00-3	WAY GIN LP		PO BOX 27	EDISON	CA	93220
189-060-17-01-3	B KIRSCHENMANN HOLDINGS LLC		5500 MING AV	BAKERSFIELD	CA	93309
189-060-19-00-0	SUNRIDGE VINEYARDS LP		441 VINELAND RD	BAKERSFIELD	CA	93307
189-060-28-00-6	B KIRSCHENMANN HOLDINGS LLC		5500 MING AV	BAKERSFIELD	CA	93309
189-060-33-00-0	C A K FARMS INC		5500 MING AV	BAKERSFIELD	CA	93309
189-060-34-01-2	SAN JOAQUIN VALLEY R/R CO		P O BOX 937	EXETER	CA	93221
189-060-36-01-8	SAN JOAQUIN VALLEY R/R CO		P O BOX 937	EXETER	CA	93221
189-070-29-01-1	JADA HOLDINGS LLC		5500 MING AV	BAKERSFIELD	CA	93309
189-070-39-00-1	C A K FARMS INC		5500 MING AV	BAKERSFIELD	CA	93309
189-080-01-01-2	MOORE DAVID & PRISCELLA FAMILY TRUST	MOORE PRISCELLA TRS	P O BOX 698	ARVIN	CA	93203
189-080-02-00-6	KNORR MARY D & DORR LORENA D		11 7TH ST	CAYUCOS	CA	93430
189-080-04-00-2	NYN ENTERPRISE INC		1300 EL CAMINO REAL	ARVIN	CA	93203
189-080-05-00-5	NYN ENTERPRISES INC		1300 EL CAMINO REAL	ARVIN	CA	93203
189-080-06-00-8	NYN ENTERPRISE INC		1300 CAMINO REAL	ARVIN	CA	93203
189-080-07-00-1	MOORE DAVID & PRISCELLA FAMILY TRUST	MOORE PRISCELLA TRS	P O BOX 698	ARVIN	CA	93203
189-080-10-00-9	CRIDER ISAIAH	ASSESSOR TITLE SECTI	1115 TRUXTUN AV	BAKERSFIELD	CA	93301
189-352-22-00-6	SYCAMORE ROAD ARVIN LP		1521 WESTBRANCH DR	MCLEAN	VA	22102
189-352-23-00-9	SYCAMORE ROAD ARVIN LP		1521 WESTBRANCH DR	MCLEAN	VA	22102
189-352-30-00-9	SYCAMORE ROAD ARVIN LP		1521 WESTBRANCH DR	MCLEAN	VA	22102
189-390-12-00-5	HONIS CAPITAL ASSETS LP		10443 HONIS RD	DELANO	CA	93215
189-400-16-00-9	ARVIN EDISON WATER STG DIST		P O BOX 175	ARVIN	CA	93203
189-400-17-00-2	GLOBAL AG PROP II USA LLC		2004 FOX DR	CHAMPAIGN	IL	61820
193-020-01-01-5	LAUT FARMS LLC		2572 S UNION AV	BAKERSFIELD	CA	93307
193-050-03-01-0	LAUT FARMS LLC		3123 MCKEE RD	BAKERSFIELD	CA	93313
193-060-05-01-9	LAUT FARMS LLC		2572 S UNION AV	BAKERSFIELD	CA	93307
193-060-14-00-6	LAUT FARMS LLC		2572 S UNION AV	BAKERSFIELD	CA	93307
193-110-05-00-4	SMITH STEPHEN B & KIM E		PO BOX 212	ARVIN	CA	93203
193-110-06-00-7	LAUT FARMS LLC		2572 S UNION AV	BAKERSFIELD	CA	93307
193-110-07-00-0	SMITH STEPHEN B & KIM E		PO BOX 0212	ARVIN	CA	93203
193-110-08-01-2	LAUT FARMS LLC		3123 MCKEE RD	BAKERSFIELD	CA	93313
193-110-09-01-5	SHERRILL CECIL & LOIS		11009 SANTA ROSA AV	LAMONT	CA	93241
193-110-10-00-8	LAUT FARMS LLC		3123 MCKEE RD	BAKERSFIELD	CA	93313
193-120-01-00-5	FOSTER KATHERINE CLARE		19390 NE 163RD CT	WOODINVILLE	WA	98072

APN	OWNER_NAME_1	OWNER_NAME_2	ADDRESS	CITY	STATE	ZIP
193-120-02-00-8	CLARE JOHN BRETT & CHRISTINE A		19390 NE 163RD CT	WOODINVILLE	WA	98072
193-120-04-01-3	HRONIS LAND CO		10443 HRONIS RD	DELANO	CA	93215
238-101-06-00-7	WHEELER RDG MARICOPA WTR DIST		12109 HIGHWAY 166	BAKERSFIELD	CA	93313
238-330-03-00-8	FARMLAND RESERVE INC	TAX ADM DIV 554-6428	PO BOX 511196	SALT LAKE CITY	UT	84151
238-330-05-00-4	FARMLAND RESERVE INC	TAX ADM DIV 554-6428	PO BOX 511196	SALT LAKE CITY	UT	84151
238-330-06-00-7	DELANO FARMS CO INC		111 NE MARKET ST	OLYMPIA	WA	98501
238-340-04-00-4	DELANO FARMS CO INC		111 NE MARKET ST	OLYMPIA	WA	98501
238-340-05-00-7	DELANO FARMS CO INC		111 NE MARKET ST	OLYMPIA	WA	98501
238-340-15-00-6	HORTIFRUT IMPORTS INC		9450 CORKSCREW PALMS CI	ESTERO	FL	33928
238-340-27-00-1	BIANE JEAN PIERRE MARIUS		2618 CLEMSON CT	BAKERSFIELD	CA	93306
238-340-28-00-4	DELANO FARMS CO INC		111 NE MARKET ST	OLYMPIA	WA	98501
238-350-29-00-0	BENNETT FAMILY REV TRUST	BENNETT RICHARD W &	1472 ROCKY HILL DR	EXETER	CA	93221
238-350-31-00-5	BLUE RIVER FARMS LLC		144 W LAKE AV	WATSONVILLE	CA	95076
238-350-32-00-8	WHEELER RDG MARICOPA WTR DIST		12109 HIGHWAY 166	BAKERSFIELD	CA	93313
238-350-41-00-4	WHEELER RIDGE MARICOPA WATER STORAGE DIST		12109 HIGHWAY 166	BAKERSFIELD	CA	93313
238-350-44-00-3	DELANO FARMS CO INC		111 NE MARKET ST	OLYMPIA	WA	98501
238-350-45-00-6	DELIS FARMS LP		2915 20TH ST	BAKERSFIELD	CA	93301
238-360-12-00-3	BLUE RIVER FARMS LLC		144 W LAKE AV	WATSONVILLE	CA	95076
238-370-20-00-9	BENNETT FAMILY TRUST	BENNETT RICHARD W &	1472 ROCKY HILL DR	EXETER	CA	93221
238-400-16-00-6	TEHACHAPI BENCH VINEYARD PTP LLC		P O BOX 789	CERES	CA	95307
238-400-26-00-5	TEHACHAPI BENCH VINEYARD PTP LLC		P O BOX 789	CERES	CA	95307
238-400-27-00-8	TEHACHAPI BENCH VINEYARD PTP LLC		P O BOX 789	CERES	CA	95307
238-400-40-00-5	FG2 HOLDINGS LLC		1306 E HERNDON AV	FRESNO	CA	93711
238-400-41-00-8	DOSANJH BROS LLC		9158 S FAIRFAX RD	BAKERSFIELD	CA	93307
238-400-43-00-4	EAST ALMONDS LLC		2055 WOODSIDE RD	REDWOOD CITY	CA	94061
238-400-45-00-0	TEHACHAPI BENCH VINEYARD PTP LLC		P O BOX 789	CERES	CA	95307
238-400-51-00-7	TEHACHAPI BENCH VINEYARD PTP LLC		P O BOX 789	CERES	CA	95307
238-400-56-00-2	BENNETT FAMILY TRUST	BENNETT RICHARD W &	1472 ROCKY HILL DR	EXETER	CA	93221
241-250-18-00-3	TEJON RANCH CO		PO BOX 1000	LEBEC	CA	93243
241-250-22-00-4	TEJON RANCH CO		PO BOX 1000	LEBEC	CA	93243
241-270-08-00-0	TEJON RANCH CO		PO BOX 1000	LEBEC	CA	93243
241-270-24-00-6	TEJON RANCH CO		PO BOX 1000	LEBEC	CA	93243
241-300-14-00-5	TEJON RANCHCORP	ALLEN LYDA	P O BX 1000	LEBEC	CA	93243
241-320-06-00-8	TEJON RANCH CO		PO BOX 1000	LEBEC	CA	93243
241-320-07-00-1	TEJON RANCH CO		PO BOX 1000	LEBEC	CA	93243
241-320-16-00-7	TEJON RANCH CO		PO BOX 1000	LEBEC	CA	93243
241-320-17-00-0	TEJON RANCH CO		PO BOX 1000	LEBEC	CA	93243
241-350-01-00-2	TEJON RANCH CO		PO BOX 1000	LEBEC	CA	93243
241-380-02-00-4	TEJON RANCHCORP	ALLEN LYDA	P O BX 1000	LEBEC	CA	93243
241-380-03-00-7	TEJON RANCHCORP	ALLEN LYDA	P O BX 1000	LEBEC	CA	93243
241-380-07-00-9	TEJON RANCHCORP	ALLEN LYDA	P O BX 1000	LEBEC	CA	93243

APN	OWNER_NAME_1	OWNER_NAME_2	ADDRESS	CITY	STATE	ZIP
241-380-08-00-2	TEJON RANCH CO		PO BOX 1000	LEBEC	CA	93243
241-390-02-00-7	TEJON RANCH CO		PO BOX 1000	LEBEC	CA	93243
255-142-09-00-0	PAC PIPELINE SYSTEM LLC		5900 CHERRY AV	LONG BEACH	CA	90805
255-142-13-00-1	HAZEL E HOMMERBERG TRUST		P O BOX 1268	LEBEC	CA	93243
255-142-23-00-0	GREENHAW JAMES A & PENELOPE		P O BOX 1313	LEBEC	CA	93243
255-142-24-00-3	PRESTON ROBERT J & ARDIS E		P O BOX 1268	LEBEC	CA	93243
255-142-25-00-6	U S A	LOS PADRES NATIONAL FOREST	1980 OLD MISSION DRIVE	SOLVANG	CA	93464
255-142-26-00-9	TEJON RANCH CO		PO BOX 1000	LEBEC	CA	93243
255-142-27-00-2	MOOR WADE & CARRIE		2720 HILLCREST CT	FRAZIER PARK	CA	93225
255-142-29-00-8	HILL STEPHEN & MARLA LIV TR	HILL STEPHEN E & MAR	P O BOX 1357	LEBEC	CA	93243
255-142-34-00-2	TEJON RANCH CO		PO BOX 1000	LEBEC	CA	93243
255-150-04-00-4	TEJON RANCH CO		PO BOX 1000	LEBEC	CA	93243
255-160-01-00-8	EL TEJON SCHOOL DIST		P O BOX 876	LEBEC	CA	93243
255-160-03-00-4	TEJON RANCH CO		PO BOX 1000	LEBEC	CA	93243
255-160-15-00-9	TEJON RANCH CO		PO BOX 1000	LEBEC	CA	93243
255-160-16-00-2	TEJON RANCH CO		PO BOX 1000	LEBEC	CA	93243
255-160-17-00-5	TEJON RANCH CO		PO BOX 1000	LEBEC	CA	93243
255-160-18-00-8	TEJON RANCH CO		PO BOX 1000	LEBEC	CA	93243
255-171-08-00-9	STATE OF CALIFORNIA		100 HOWE AVENUE, SUITE 100 SOUTH	SACRAMENTO	CA	95825
255-171-13-00-3	STATE OF CALIFORNIA		100 HOWE AVENUE, SUITE 100 SOUTH	SACRAMENTO	CA	95825
255-171-22-00-9	TEJON RANCH CO		PO BOX 1000	LEBEC	CA	93243
255-171-25-00-8	TEJON RANCH CO		PO BOX 1000	LEBEC	CA	93243
255-171-26-00-1	TEJON RANCH CO		PO BOX 1000	LEBEC	CA	93243
255-370-19-01-1	FILOTEO RAYMOND & HARRIET		P O BOX 776	LEBEC	CA	93243
255-370-20-00-4	TEJON RANCH CO		PO BOX 1000	LEBEC	CA	93243
255-370-25-00-9	LAS PADRES ESTATES ASSN		BOX 1131	LEBEC	CA	93243
255-370-28-00-8	TEJON RANCH CO		PO BOX 1000	LEBEC	CA	93243
255-370-29-00-1	ELMALEH ALLAN & MOORE ELMALEH MARIE		P O BOX 905	LEBEC	CA	93243
255-370-31-00-6	KARAMIAN SARGON		31719 THE OLD RD	CASTAIC	CA	91384
255-370-36-00-1	STUART CARL T & PONNI T		PO BOX 1438	LEBEC	CA	93243
255-370-38-00-7	TEJON RANCH CO	MOBIL OIL CORP PROP	P O BOX 4973	DALLAS	TX	77210
255-370-39-00-0	TEJON RANCH CO	MOBILE OIL CORPORATI	P O BOX 4973	DALLAS	TX	77210
255-370-45-00-7	ALI WAIEL		125 W TREMONT AV	CHARLOTTE	NC	28203
255-380-01-00-2	KULIKOFF JULIEANN		20331 88TH ST	CALIFORNIA CITY	CA	93505
255-380-02-00-5	TURNER JAYSON D		P O BOX C	PINE MOUNTAIN	CA	93222
255-380-03-00-8	STATE OF CALIFORNIA		100 HOWE AVENUE, SUITE 100 SOUTH	SACRAMENTO	CA	95825
255-380-04-00-1	MILES JAMES E & LAHOMA E		10220 SPRUCE RD	GOODMAN	MO	64843
255-380-05-00-4	KULIKOFF JULIEANN		20331 88TH ST	CALIFORNIA CITY	CA	93505
255-560-23-00-8	EL TEJON UNIFIED SCHOOL DIST		P O BOX 876	LEBEC	CA	93243
255-560-34-00-0	STATE OF CALIFORNIA	DEPT PARKS & REC	1 CAPITOL MALL	SACRAMENTO	CA	95814
255-620-22-00-2	COUNTY OF KERN		2700 M Street	BAKERSFIELD	CA	93301

APN	OWNER_NAME_1	OWNER_NAME_2	ADDRESS	CITY	STATE	ZIP
255-620-48-00-8	ENDICOTT CLIFFORD B SEP PROP TR		904 SOLANO ST	CORNING	CA	96021
255-690-01-00-2	TEJON RANCH CO		PO BOX 1000	LEBEC	CA	93243
255-690-05-00-4	TEJON RANCH CO		PO BOX 1000	LEBEC	CA	93243
255-690-09-00-6	TEJON RANCH CO		PO BOX 1000	LEBEC	CA	93243
255-690-19-00-5	TEJON RANCH CO		PO BOX 1000	LEBEC	CA	93243
255-690-30-00-6	TEJON RANCHCORP		4436 LEBEC RD	LEBEC	CA	93243
255-700-07-00-2	TEJON RANCH CO		PO BOX 1000	LEBEC	CA	93243
255-700-17-00-1	TEJON RANCH CO		PO BOX 1000	LEBEC	CA	93243
255-700-28-00-3	TEJON RANCHCORP		P O BOX 1000	LEBEC	CA	93243
255-700-29-00-6	TEJON RANCHCORP		P O BOX 1000	LEBEC	CA	93243
255-700-34-00-0	TEJON RANCH CO		PO BOX 1000	LEBEC	CA	93243
255-700-37-00-9	TEJON RANCH CO		PO BOX 1000	LEBEC	CA	93243
255-700-43-00-6	TEJON RANCHCORP		4436 LEBEC RD	LEBEC	CA	93243
255-700-45-00-2	TEJON RANCHCORP		4436 LEBEC RD	LEBEC	CA	93243
317-010-06-00-0	STALLION SPRINGS COMM SER DIST		ST RT 1 BOX 2800-11	TEHACHAPI	CA	93561
317-031-01-00-8	STALLION SPRINGS COMM SER DIST		ST RT 1 BOX 2800-11	TEHACHAPI	CA	93561
317-031-02-00-1	BAILEY CHRISTOPHER L		30401 DRAKE CT	TEHACHAPI	CA	93561
317-031-03-00-4	ANDRESEN PAUL D FAMILY TRUST	ANDRESEN PAUL D TRUS	548 S INDIANA ST	ANAHEIM	CA	92805
317-031-04-00-7	WRIGHT JOY		9009 STATEN ISLAND DR	BAKERSFIELD	CA	93311
317-031-05-00-0	SMITH DAVID G		30400 DRAKE CT	TEHACHAPI	CA	93561
317-031-06-00-3	STALLION SPRINGS COMM SER DIST		ST RT 1 BOX 2800-11	TEHACHAPI	CA	93561
317-031-07-00-6	BROWN RICHARD G		30451 CONDOR PL	TEHACHAPI	CA	93561
317-031-08-00-9	BATHE FAMILY LIVING TRUST	BATHE LARRY G & DEBO	30501 CONDOR PL	TEHACHAPI	CA	93561
317-031-09-00-2	SINGH HARPAL		1370 PEREGRINE DR	GILROY	CA	95020
317-031-12-00-0	WEBB BRUCE M & JOANNE M		3557 SE SANDERLING DR	SOUTHPORT	NC	28461
317-032-03-00-1	OLIVAS EDWARD ROBERT & MICHELLE DENISE		30540 CONDOR PL	TEHACHAPI	CA	93561
317-032-06-00-0	STALLION SPRINGS COMM SER DIST		ST RT 1 BOX 2800-11	TEHACHAPI	CA	93561
317-032-07-00-3	PERRY SARAH		30450 CONDOR PL	TEHACHAPI	CA	93561
317-032-08-00-6	RUTLEDGE NANCY A S		30600 CONDOR PL	TEHACHAPI	CA	93561
317-040-05-00-6	ROSS BETTY MARIE		30701 CONDOR PL	TEHACHAPI	CA	93561
317-060-06-00-5	STALLION SPRINGS COMM SER DIST		ST RT 1 BOX 2800-11	TEHACHAPI	CA	93561
317-060-12-00-2	STALLION SPRINGS COMM SER DIST		ST RT 1 BOX 2800-11	TEHACHAPI	CA	93561
317-070-01-00-3	STALLION SPRINGS COMM SER DIST		ST RT 1 BOX 2800-11	TEHACHAPI	CA	93561
317-070-27-00-9	EDWARDS FAMILY TRUST	EDWARDS LARRY C & SA	18951 JACKS HILL RD	TEHACHAPI	CA	93561
317-170-01-00-2	YOUNGSTRAND MARVIN & MELITINA		20410 82ND ST	CALIFORNIA CITY	CA	93505
317-170-02-00-5	PRICE CYNTHIA D		PO BOX 1294	FRAZIER PARK	CA	93225
317-170-03-00-8	STALLION SPRINGS COMM SER DIST		ST RT 1 BOX 2800-11	TEHACHAPI	CA	93561
317-170-04-00-1	LEHECKA LYLE		19251 BADGER CT	TEHACHAPI	CA	93561
317-170-05-00-4	LEHECKA LYLE		19251 BADGER CT	TEHACHAPI	CA	93561
317-170-06-00-7	MANN THERESA MARIE		28881 SHANNON CT	TEHACHAPI	CA	93561
317-170-07-00-0	VION GEORGE J & KAREN C		23224 MAPLE ST	NEWHALL	CA	91321

APN	OWNER_NAME_1	OWNER_NAME_2	ADDRESS	CITY	STATE	ZIP
317-170-08-00-3	STULL JOHN A & SHERYL A FAMILY TRUST	STULL JOHN A & SHERY	19281 BADGER CT	TEHACHAPI	CA	93561
317-170-09-00-6	ROTHERMEL JOASH & CATHCART JENNIFER		19300 BADGER CT	TEHACHAPI	CA	93561
317-170-10-00-8	BRAUGHTON JEFFREY		19280 BADGER CT	TEHACHAPI	CA	93561
317-170-11-00-1	LOYD FARRELL		P O BOX 2123	TEHACHAPI	CA	93581
317-170-12-00-4	STALLION SPRINGS COMM SER DIST		ST RT 1 BOX 2800-11	TEHACHAPI	CA	93561
317-180-01-00-5	MC REVOCABLE LIVING TRUST	CHARAFEDDINE MOHAMAD	3701 N MARION ST	DENVER	CO	80205
317-180-02-00-8	STULL JOHN A & SHERYL A FAMILY TRUST	STULL JOHN A & SHERY	19281 BADGER CT	TEHACHAPI	CA	93561
317-180-03-00-1	VELUR HOLDINGS LLC		P O BOX 56867	SHERMAN OAKS	CA	91413
317-180-04-00-4	JAGER RACHEL		19151 QUAIL DR	TEHACHAPI	CA	93561
317-180-05-00-7	JAGER RACHAEL		19151 QUAIL DR	TEHACHAPI	CA	93561
317-180-06-00-0	TETZ FAMILY TRUST	TETZ WARREN LEE & LU	20357 PARK VIEW LN	TEHACHAPI	CA	93561
317-180-07-00-3	KRAMER GREGORY & GERALDINE		38643 MEADOW WOOD ST	PALMDALE	CA	93552
317-180-10-00-1	BELYEU ANGLEA J		19301 QUAIL DR	TEHACHAPI	CA	93561
317-180-15-00-6	STALLION SPRINGS COMM SER DIST		ST RT 1 BOX 2800-11	TEHACHAPI	CA	93561
317-180-16-00-9	ESTEP CRAIG		19251 QUAIL DR	TEHACHAPI	CA	93561
317-202-01-00-4	MAS LIVING TRUST	SEDAGHAT MEHRAN M AL	5157 GARDEN GROVE AV	TARZANA	CA	91356
317-202-02-00-7	WILLIAMS FAMILY TRUST	WILLIAMS DONALD WAYN	401 CAMWOOD AV	BAKERSFIELD	CA	93308
317-202-03-00-0	HOGANSON JEFFREY T & GWEN M		5664 N SCOTTSDALE RD	PARADISE VALLE	AZ	85253
317-202-04-00-3	FRENG DANIEL B & LISA A		19100 QUAIL DR	TEHACHAPI	CA	93561
317-202-05-00-6	GOLLNICK TIMOTHY ALAN & ROBERTA JEAN		30430 HORSETHIEF DR	TEHACHAPI	CA	93561
317-202-06-00-9	URBANSKI MIKE		P O BOX 1004	EASTON	PA	18044
317-202-15-00-5	TERRY FAMILY TRUST	TERRY KIM A & ANA R	990 RAVENSBURY ST	LAKE SHERWOOD	CA	91361
317-202-16-00-8	STALLION SPRINGS COMM SER DIST		ST RT 1 BOX 2800-11	TEHACHAPI	CA	93561
317-202-17-00-1	BRUDER GEORGIA A	DAVIS GORDON AND GEO	19101 JACKS HILL RD	TEHACHAPI	CA	93561
317-271-05-00-0	GODWIN TRUST	GODWIN JOHN B & PATR	5000 MARLIN WY	OXNARD	CA	93035
317-271-06-00-3	BAUST RENEE		19080 JACKS HILL RD	TEHACHAPI	CA	93561
317-271-07-00-6	THOMAS PAUL REED		29610 ELKHORN PL	TEHACHAPI	CA	93561
317-271-08-00-9	BOOSE FAMILY TRUST	BOOSE JOHN C & DENIS	19000 JACKS HILL RD	TEHACHAPI	CA	93561
317-271-09-00-2	GUILES TIMOTHY B & ANGELA RENE		29560 ELKHORN PL	TEHACHAPI	CA	93561
317-271-10-00-4	WHELCHER ROBERT & WHELCHER TR	WHELCHER SUE A TRS	6516 CANDACE	PICO RIVERA	CA	90660
317-271-11-00-7	THOMAS PAUL REED		29610 ELKHORN PL	TEHACHAPI	CA	93561
317-271-12-00-0	BURGESS RYAN & WYLAN BRITINI		24876 APPLE ST	NEWHALL	CA	91321
317-271-13-00-3	BEE DANIEL B		17620 BOLD VENTURE DR	TEHACHAPI	CA	93561
317-271-14-00-6	LARRABURE BRIAN ALFONSO & CARI NOEL		PO BOX 3488	CHATSWORTH	CA	91313
317-271-21-00-6	MC TYRE EVAN & NATASHA		6762 AIRWAY AV	YUCCA VALLEY	CA	92284
317-271-22-00-9	STALLION SPRINGS COMM SER DIST		ST RT 1 BOX 2800-11	TEHACHAPI	CA	93561
317-272-01-00-5	CASSIDY SANDRA A		5845 VALERIE AV	WOODLAND HILI	CA	91367
317-272-02-00-8	NAVARRO ALBERTO & PATRICIA		4667 W 130TH ST	HAWTHORNE	CA	90250
317-272-04-00-4	STALLION SPRINGS COMM SER DIST		ST RT 1 BOX 2800-11	TEHACHAPI	CA	93561
317-280-03-00-0	AGB HOLDINGS LLC		1620 MILL ROCK WY	BAKERSFIELD	CA	93311
317-280-04-00-3	QUINTEL DAVID		1130 NICOLA RANCH RD	SAN LUIS OBISPC	CA	93405

APN	OWNER_NAME_1	OWNER_NAME_2	ADDRESS	CITY	STATE	ZIP
317-280-05-00-6	POST ERIKA		1539 W 112TH ST	LOS ANGELES	CA	90047
317-280-06-00-9	ESPINOZA SURVIVORS TR	ESPINOZA ANGELINA TR	1054 TIOGA WY	MANTECA	CA	95337
317-280-07-00-2	MOGHADAM SHALA S		P O BOX 20450	NEWARK	NJ	7101
317-280-08-00-5	KIM PYUNG SUN & KOOK JUNG		25604 BRISBANE CT	CALABASAS	CA	91302
317-280-09-00-8	DUSTMAN FAMILY TRUST	DUSTMAN DENNIS M & K	29291 ANGUS CT	TEHACHAPI	CA	93561
317-280-10-00-0	DUSTMAN FAMILY TRUST	DUSTMAN DENNIS M & K	29291 ANGUS CT	TEHACHAPI	CA	93561
317-280-11-00-3	MARKS COLETTE M		4025 W DESERT DR	LAVEEN	AZ	85339
317-280-12-00-6	COSTA KIMBERLY LYN & DENNIS MANUEL		29200 ANGUS CT	TEHACHAPI	CA	93561
317-280-13-00-9	COSTA DENNIS & KIMBERLY		29200 ANGUS CT	TEHACHAPI	CA	93561
317-280-14-00-2	SNOW CHARLES & RHEA		29150 ANGUS CT	TEHACHAPI	CA	93561
317-280-15-00-5	CHAVEZ ROBERT		19041 LONGHORN LN	TEHACHAPI	CA	93561
317-280-16-00-8	YOUNG MICHAEL & CHERYL TRUST		41362 MYRTLE ST	PALMDALE	CA	93551
317-280-17-00-1	STALLION SPRINGS COMM SER DIST		ST RT 1 BOX 2800-11	TEHACHAPI	CA	93561
317-280-21-00-2	RODRIGUEZ DOROTEO JR & JANETTE		29300 ELKHORN PL	TEHACHAPI	CA	93561
317-280-22-00-5	GOSSETT BRIAN & LAURIE		26410 OKUMA RD	MENIFEE	CA	92584
317-280-23-00-8	DE FREITAS JAY & MICHON		29401 ELKHORN PL	TEHACHAPI	CA	93561
317-280-24-00-1	DE FREITAS JAY & MICHON		29401 ELKHORN PL	TEHACHAPI	CA	93561
317-280-25-00-4	DE FREITAS JAY & MICHON		29401 ELKHORN PL	TEHACHAPI	CA	93561
317-280-26-00-7	GODOY GRACIA BERNARDO & ANGELICA		785 TUCKER RD	TEHACHAPI	CA	93561
317-280-27-00-0	NICHOLSON WARREN T & CORONADO CHACON G V		225 EL MONTE RD	EL CAJON	CA	92020
317-310-03-00-8	ENGELHARDT LOXI L TRUST	ENGELHARDT LOXI L TR	1710 W AVENUE L4	LANCASTER	CA	93534
317-310-04-00-1	SORFAZIAN FAMILY TRUST	SORFAZIAN NERCES G &	9344 RHEA AV	NORTHBRIDGE	CA	91324
317-310-05-00-4	TERRA FAMILY TRUST	TERRA RONALD & SHERY	28081 PREAKNESS DR	TEHACHAPI	CA	93561
317-310-06-00-7	THOMAS MICHAEL & HILLORIE J		19040 LONGHORN LN	TEHACHAPI	CA	93561
317-310-07-00-0	DL INVESTORS 1 LLC		166 W WASHINGTON ST	CHICAGO	IL	60602
317-310-08-00-3	GONZALES REVOCABLE TR	GONZALES E J & LUCY	2115 ST EMILION LN	SAN JACINTO	CA	92583
317-310-09-00-6	STALLION SPRINGS COMM SER DIST		ST RT 1 BOX 2800-11	TEHACHAPI	CA	93561
317-330-04-00-7	STALLION SPRINGS COMM SER DIST		ST RT 1 BOX 2800-11	TEHACHAPI	CA	93561
317-360-01-00-7	STALLION SPRINGS COMM SER DIST		ST RT 1 BOX 2800-11	TEHACHAPI	CA	93561
317-360-02-00-0	STALLION SPRINGS COMM SER DIST		ST RT 1 BOX 2800-11	TEHACHAPI	CA	93561
317-360-19-00-0	STALLION SPRINGS COMM SER DIST		RT 1 BOX 2800-11	TEHACHAPI	CA	93561
317-510-40-00-3	STALLION SPRINGS COMM SER DIST		ST RT 1 BOX 2800-11	TEHACHAPI	CA	93561
317-510-44-00-5	PONCHIK PROP LLC		2735 EAST ARTESIA BL	LONG BEACH	CA	90805
317-520-01-00-3	FRENG JOSHUA		28980 BIRKDALE CT	TEHACHAPI	CA	93561
317-520-02-00-6	SEGURA DONALD J		44752 SARAH LN	LANCASTER	CA	93535
317-520-03-00-9	SURVIVORS TRUST	DE LA PUENTE HECTOR	2118 NAVY ST	SANTA MONICA	CA	90405
317-520-04-00-2	CHAIDEZ STANLEY B & SUSAN J		28920 BIRKDALE CT	TEHACHAPI	CA	93561
317-520-05-00-5	WEST SHANNON ROSE		12418 BRADFORD PL	GRANADA HILLS	CA	91344
317-520-06-00-8	WARNE LARRY & JODY TRUST	WARNE LARRY H & JODY	29400 SAN JOAQUIN DR	TEHACHAPI	CA	93561
317-520-07-00-1	WARNE LARRY & JODY TRUST	WARNE LARRY H & JODY	29400 SAN JOAQUIN DR	TEHACHAPI	CA	93561
317-520-08-00-4	HILL JOHN & SHERRY TR	HILL JOHN H & SHERRY	28800 BIRKDALE CT	TEHACHAPI	CA	93561

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317-520-09-00-7	MARTINEC JIM		15922 PILGRIM CI	HUNTINGTON B	CA	92647
317-520-10-00-9	NIBBELINK FAMILY TR	NIBBELINK GERALD & D	23034 PARKVIEW DR	SANTA CLARITA	CA	91321
317-520-13-00-8	GOMES MICHAEL GREGORY		14120 SE 139TH AV	SNOHOMISH	WA	98290
317-520-14-00-1	JASPER FAMILY LIVING TRUST	JASPER A WILLIAM & D	28801 BIRKDALE CT	TEHACHAPI	CA	93561
317-520-15-00-4	JASPER FAMILY TR	JASPER A WILLIAM & D	28801 BIRKDALE CT	TEHACHAPI	CA	93561
317-520-16-00-7	STENSON THOMAS ALVIN & PAMELA C		28841 BIRKDALE CT	TEHACHAPI	CA	93561
317-520-17-00-0	EMSLIE WINIFRED M 2006 TRUST	EMSLIE WINIFRED M TR	156 PIEDMONT AV	CLAREMONT	CA	91711
317-520-18-00-3	CHAIDEZ STAN & SUSAN		28920 BIRKDALE CT	TEHACHAPI	CA	93561
317-520-19-00-6	ZANJANI ARASH FARHADI		28961 BIRKDALE CT	TEHACHAPI	CA	93561
317-520-20-00-8	PIERCE GRADY T		19000 PINEHURST CT	TEHACHAPI	CA	93561
317-520-21-00-1	ROETHLER SCOTT ROBERT & EARSELA		19020 PINEHURST PL	TEHACHAPI	CA	93561
317-520-24-00-0	MUNOZ LORENZO J JR & DEBORAH R		19021 PINEHURST PL	TEHACHAPI	CA	93561
317-520-25-00-3	OLNEY SEAN M & THERESA A		19001 PINEHURST PL	TEHACHAPI	CA	93561
317-520-69-00-1	BROOKS C WARNER & LOYANNE		19041 PINEHURST PL	TEHACHAPI	CA	93561
317-520-70-00-3	COOPER FAMILY TRUST	COOPER A T & DIANNE	28700 BIRKDALE CT	TEHACHAPI	CA	93561
317-560-08-00-6	CORNFLAKE PROPERTIES LLC	BARNETT & RUBIN APC	5450 TRABUCO RD	IRVINE	CA	92620
317-571-01-00-5	LAMARSH RAYMOND W		467 ATWOOD AV	EXETER	CA	93221
317-571-07-00-3	BAKER KEVIN & MARY	BAKER KEVIN L & MARY	18901 PINEHURST PL	TEHACHAPI	CA	93561
317-572-12-00-4	ARAGON 2011 FAMILY TRUST	NARVAEZ MARIA A & AR	438 NELL CI	PLACENTIA	CA	92870
317-572-13-00-7	SEVERI STANLEY		19586 CHERRY LN	TEHACHAPI	CA	93561
317-572-14-00-0	WHITE DANIEL M & JULIE L TRUST	WHITE DANIEL M & JUL	35662 PEPPERTREE LN	SANTA CLARITA	CA	91390
317-572-15-00-3	MAGANA FAMILY TRUST	MAGANA ERASMO T & JU	18940 PINEHURST PL	TEHACHAPI	CA	93561
317-572-16-00-6	FOWKES LAURIE LIVING TRUST	FOWKES LAURIE TTEE	18950 PINEHURST PL	TEHACHAPI	CA	93561
376-110-02-00-8	MILANO LAND & CATTLE CO LLC		28749 BANDUCCI RD	TEHACHAPI	CA	93561
376-110-31-00-2	DA/PRO RUBBER INC		8044 WOODLEY AV	VAN NUYS	CA	91406
376-110-32-00-5	DA/PRO RUBBER INC		8044 WOODLEY AV	VAN NUYS	CA	91406
376-120-03-00-4	OWENS DEXTER & MICHELLE		18888 PELLISIER RD	TEHACHAPI	CA	93561
376-120-05-00-0	BLAGG BARRY		26908 BANDUCCI RD	TEHACHAPI	CA	93561
376-120-06-00-3	MEMOLI RAYMOND C & MARIE A		18861 PELLISIER RD	TEHACHAPI	CA	93561
376-120-07-00-6	OWENS DEXTER L & MICHELLE		18888 PELLISIER RD	TEHACHAPI	CA	93561
386-060-12-00-6	SILL FAMILY PARTNERSHIP	M.D. ATKINSON COMPAN	1401 19TH STREET	BAKERSFIELD	CA	93301
386-060-19-00-7	NICKEL FAMILY LLC		P O BOX 60679	BAKERSFIELD	CA	93386
387-010-13-00-1	WATSON & WATSON CATTLE LLC	MR C JAY WATSON PRES	2000 NORRIS RD	BAKERSFIELD	CA	93308
387-010-17-00-3	WATSON & WATSON CATTLE LLC	MR C JAY WATSON	2000 NORRIS RD	BAKERSFIELD	CA	93308
387-060-05-00-3	NICKEL FAMILY LLC		P O BOX 60679	BAKERSFIELD	CA	93386
387-060-07-00-9	SPEARS IRREVOCABLE TRUST	MELSON KATHLEEN TRUS	706 CHELSEA ST	BAKERSFIELD	CA	93306
387-060-12-00-3	SOLIS CARLOS ESTRADA & ESTRADA LACEY DAWN		16921 BRECKENRIDGE RD	BAKERSFIELD	CA	93307
387-060-13-00-6	DENHERDER LESLIE E & SUSAN M LIVING TRUST	DENHERDER LESLIE E &	3100 E BELLE TR	BAKERSFIELD	CA	93307
387-060-14-00-9	PAPASERGIA JOHN SALVATOR		16914 TARINA CT	BAKERSFIELD	CA	93307
387-060-15-00-2	DENHERDER LESLIE E & SUSAN M LIVING TRUST	DENHERDER LESLIE E &	3100 E BELLE TR	BAKERSFIELD	CA	93307
387-060-16-00-5	WEBSTER FRED WALLACE & DONNA MARIE		16903 TARINA CT	BAKERSFIELD	CA	93307

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387-060-29-00-3	ESTATES AT RIO BRAVO LP		135 THIRD ST	SAN RAFAEL	CA	94901
388-010-01-00-3	PETTIT ARNOLD TR	PETTIT ARNOLD L TRS	PO BOX 277	EDISON	CA	93220
388-010-15-00-4	MEBANE DAVID		15016 VIA MESSINA DR	BAKERSFIELD	CA	93306
388-010-16-00-7	MEBANE DAVID		15016 VIA MESSINA DR	BAKERSFIELD	CA	93306
388-060-10-00-4	GIUMARRA VINEYARDS CORP		PO BOX 1969	BAKERSFIELD	CA	93303
388-060-13-00-3	REDDY ASHOKA MALLADI		2398 BAYCREST DR	HOUSTON	TX	77058
388-060-16-01-1	CONRAD B III & CONRAD W S & CONRAD C ETAL	LERETA TEXAS OPERATI	PO BOX 35605	DALLAS	TX	75235
388-060-17-00-5	STUDEBAKER TRACY L		17325 FALLING CREEK AV	BAKERSFIELD	CA	93314
388-060-20-00-3	PETTIT BRANDON P		22118 GLEN ARDEN LN	KATY	TX	77450
388-060-22-00-9	REDDY GITASUSAN MALLADI		2398 BAYCREST DR	HOUSTON	TX	77058
388-060-23-00-2	REDDY GITASUSAN MALLADI		2398 BAYCREST DR	HOUSTON	TX	77058
388-060-28-00-7	PEREIDA ECTOR & LUCILA L		14515 MASACCIO LN	BAKERSFIELD	CA	93306
397-020-03-00-8	NICKEL FAMILY LLC		P O BOX 60679	BAKERSFIELD	CA	93386
397-020-06-00-7	WATSON & WATSON CATTLE LLC	MR C JAY WATSON	2000 NORRIS RD	BAKERSFIELD	CA	93308
397-020-14-00-0	WATSON & WATSON CATTLE LLC	MR C JAY WATSON PRES	2000 NORRIS RD	BAKERSFIELD	CA	93308
397-020-20-00-7	NICKEL FAMILY LLC		P O BOX 60679	BAKERSFIELD	CA	93386
397-020-24-00-9	NICKEL FAMILY LLC		P O BOX 60679	BAKERSFIELD	CA	93386
397-020-31-00-9	NICKEL FAMILY LLC		P O BOX 60679	BAKERSFIELD	CA	93386
397-040-12-00-0	B&C LAND LLC	BARONCINI LESTER D T	8860 GREEN RD	BAKERSFIELD	CA	93311
397-040-20-00-3	BARONCINI TOMMYE JOE TRUST	BARONCINI TOMMYE JOE	8860 GREEN RD	BAKERSFIELD	CA	93311
397-040-21-00-6	WINDRIVER HOLDINGS LLC		23261 HWY 119	BAKERSFIELD	CA	93311
397-040-32-00-8	ALLEN ROBERT L		10 MAPLE GLEN DR	TOMBALL	TX	77375
397-040-37-00-3	RENER DAVID B & RAMONA		10114 OPORTO WY	BAKERSFIELD	CA	93306
397-040-38-00-6	RODRIGUEZ MARTIN		1106 E SANDISON ST	WILMINGTON	CA	90744
397-040-39-00-9	MATHEY JAMES P		P O BOX 137	WELDON	CA	93283
397-060-01-00-4	B&C LAND LLC	BARONCINI LESTER D T	8860 GREEN RD	BAKERSFIELD	CA	93311
397-060-09-00-8	PETTIT ARNOLD TR	PETTIT ARNOLD L TRS	PO BOX 277	EDISON	CA	93220
446-010-23-00-0	FRY T & R FAMILY TRUST	FRY THOMAS H & RUTH	PO BOX 1063	SUN VALLEY	CA	91352
446-010-51-00-1	PANDOL MATT JR & LINDA FAMILY TRUST		33150 POND RD	DELANO	CA	93215
446-010-52-00-4	3 J INVESTMENTS LLC		PO BOX 41118	BAKERSFIELD	CA	93384
446-010-53-00-7	FRY T & R FAMILY TRUST	FRY THOMAS H & RUTH	PO BOX 1063	SUN VALLEY	CA	91352
446-010-55-00-3	3 J INVESTMENTS LLC		3000 HARRIS DR	BAKERSFIELD	CA	93313
446-010-67-00-8	FRY T & R FAMILY TRUST	FRY THOMAS H & RUTH	PO BOX 1063	SUN VALLEY	CA	91352
446-031-30-00-3	KIRSCHENMAN WAYDE S IRREVOCABLE TRUST	KIRSCHENMAN WAYDE S	PO BOX 27	EDISON	CA	93220
446-032-04-00-5	PARNAGIAN DENNIS & DONNA LIVING TRUST	PARNAGIAN DENNIS S T	8570 S CEDAR AV	FRESNO	CA	93725
446-032-13-00-1	POOCHIGIAN CRAIG TR	POOCHIGIAN CRAIG TR	2719 PANORAMA DR	BAKERSFIELD	CA	93306
446-032-14-00-4	KIRSCHENMAN WAYDE S IRREVOCABLE TRUST	KIRSCHENMAN WAYDE S	PO BOX 27	EDISON	CA	93220
446-032-15-00-7	TEJON RANCH CO		PO BOX 1000	LEBEC	CA	93243
446-032-17-00-3	KIRSCHENMAN WAYDE S IRREVOCABLE TRUST	KIRSCHENMAN WAYDE S	PO BOX 27	EDISON	CA	93220
446-032-19-00-9	TEJON RANCH CO		PO BOX 1000	LEBEC	CA	93243
446-032-20-00-1	TEJON RANCH CO		PO BOX 1000	LEBEC	CA	93243

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446-050-09-00-2	RANDALL BROS FARMING LLC		4345 WESTMINSTER LN	SANTA MARIA	CA	93455
446-050-11-00-7	U S A		1370 RANCHO DR	ARVIN	CA	93203
446-050-12-00-0	TEJON RANCH CO		PO BOX 1000	LEBEC	CA	93243
446-050-19-00-1	ARVIN EDISON WATER STGE DIST		P O BOX 154	ARVIN	CA	93203
446-050-21-00-6	ANTHONY VINEYARDS INC	LOEFFEL PAUL A	PO BOX 9578	BAKERSFIELD	CA	93389
446-050-23-00-2	WONDERFUL CITRUS LLC		5001 CALIFORNIA AV	BAKERSFIELD	CA	93309
446-050-31-00-5	FARMLAND RESERVE INC	TAX ADM DIV 554-6429	PO BOX 511196	SALT LAKE CITY	UT	84151
446-050-39-00-9	FOUR STAR FRUIT INC		2800 ROAD 136	DELANO	CA	93215
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446-110-01-00-5	METTLER GROUP LLC	CAMPBELL JACK TRUSTE	2800 ROAD 136	DELANO	CA	93215
446-110-02-00-8	METTLER GROUP LLC	CAMPBELL JACK TRUSTE	2800 ROAD 136	DELANO	CA	93215
446-110-03-00-1	METTLER GROUP LLC	CAMPBELL JACK TRUSTE	2800 ROAD 136	DELANO	CA	93215
446-110-04-00-4	METTLER GROUP LLC	CAMPBELL JACK TRUSTE	2800 ROAD 136	DELANO	CA	93215
446-110-05-00-7	METTLER GROUP LLC	CAMPBELL JACK TRUSTE	2800 ROAD 136	DELANO	CA	93215
446-110-06-00-0	METTLER GROUP LLC	CAMPBELL JACK TRUSTE	2800 ROAD 136	DELANO	CA	93215
446-110-07-00-3	METTLER GROUP LLC	CAMPBELL JACK TRUSTE	2800 ROAD 136	DELANO	CA	93215
446-110-08-00-6	METTLER GROUP LLC	CAMPBELL JACK TRUSTE	2800 ROAD 136	DELANO	CA	93215
446-110-09-00-9	METTLER GROUP LLC	CAMPBELL JACK TRUSTE	2800 ROAD 136	DELANO	CA	93215
446-110-10-00-1	METTLER GROUP LLC	CAMPBELL JACK TRUSTE	2800 ROAD 136	DELANO	CA	93215
446-110-11-00-4	METTLER GROUP LLC	CAMPBELL JACK TRUSTE	2800 ROAD 136	DELANO	CA	93215
446-110-12-00-7	METTLER GROUP LLC	CAMPBELL JACK TRUSTE	2800 ROAD 136	DELANO	CA	93215
446-110-13-00-0	METTLER GROUP LLC	CAMPBELL JACK TRUSTE	2800 ROAD 136	DELANO	CA	93215
446-110-14-00-3	METTLER GROUP LLC	CAMPBELL JACK TRUSTE	2800 ROAD 136	DELANO	CA	93215
446-110-15-00-6	METTLER GROUP LLC	CAMPBELL JACK TRUSTE	2800 ROAD 136	DELANO	CA	93215
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446-110-22-00-6	WONDERFUL CITRUS II LLC		5001 CALIFORNIA AV	BAKERSFIELD	CA	93309
446-110-24-00-2	METTLER GROUP LLC	CAMPBELL JACK TRUSTE	2800 ROAD 136	DELANO	CA	93215
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447-020-03-00-2	TEJON RANCH CO		PO BOX 1000	LEBEC	CA	93243
447-020-04-00-5	TEJON RANCH CO		PO BOX 1000	LEBEC	CA	93243
447-020-05-00-8	TEJON RANCH CO		PO BOX 1000	LEBEC	CA	93243
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447-020-08-00-7	TEJON RANCH CO		PO BOX 1000	LEBEC	CA	93243
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447-041-09-00-3	IBT INTERNATIONAL INC		4676 LAKEVIEW AV	YORBA LINDA	CA	92886
447-041-10-00-5	IBT INTERNATIONAL INC		4676 LAKEVIEW AV	YORBA LINDA	CA	92886
447-041-14-00-7	IBT INTERNATIONAL INC		4676 LAKEVIEW AV	YORBA LINDA	CA	92886
447-041-15-00-0	IBT INTERNATIONAL INC		4676 LAKEVIEW AV	YORBA LINDA	CA	92886
447-041-16-00-3	IBT INTERNATIONAL INC		4676 LAKEVIEW AV	YORBA LINDA	CA	92886
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447-043-15-00-4	JAYSD LLC		5418 ROUND MEADOW RD	HIDDEN HILLS	CA	91302
447-043-16-00-7	JAYSD LLC		5418 ROUND MEADOW RD	HIDDEN HILLS	CA	91302
447-050-08-00-6	JAYSD LLC		5418 ROUND MEADOW RD	HIDDEN HILLS	CA	91302
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448-052-27-00-2	TANIMURA & ANTLE LAND CO LLC		P O BOX 4070	SALINAS	CA	93912
448-052-28-00-5	TANIMURA & ANTLE LAND CO LLC		P O BOX 4070	SALINAS	CA	93912
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448-061-04-00-1	JAYSD LLC		5418 ROUND MEADOW RD	HIDDEN HILLS	CA	91302
448-061-06-00-7	JAYSD LLC		5418 ROUND MEADOW RD	HIDDEN HILLS	CA	91302
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503-060-32-00-7	GRIMMWAY ENTERPRISES INC	GREEN JEFFREY A	P O BOX 81498	BAKERSFIELD	CA	93380
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3251-003-006	GOREN JOSEPH B AND NORMA G TRS		17701 BAXTER CIR	HUNTINGTON BECA	CA	92647
3251-015-004	GORMAN POST PROPERTIES LP	C/O ASPEN MANAGEMENT	18751 VENTURA BLVD	TARZANA	CA	91356
3251-015-009	GORMAN POST PROPERTIES LP	C/O ASPEN MANAGEMENT	18751 VENTURA BLVD	TARZANA	CA	91356
3251-015-011	ORR JAMES	C/O ASPEN MANAGEMENT	18751 VENTURA BLVD	TARZANA	CA	91356
3251-015-012	AKW VIKING LLC	C/O MOUSTAFA NASR	25525 VIA PALADAR	VALENCIA	CA	91355
3251-015-017	AKW VIKING LLC	C/O MOUSTAFA NASR	25525 VIA PALADAR	VALENCIA	CA	91355
3251-015-800	SO CALIF EDISON CO SB OF E PAR 4 MAP 148-19-209					0
3251-016-006	GORMAN POST PROPERTIES LP	C/O ASPEN MANAGEMENT	18751 VENTURA BLVD	TARZANA	CA	91356
3251-016-019	MDM GORMAN POST RANCH LP	C/O MARK MAJER	23 CORPORATE PLAZA DR	NEWPORT BEACI	CA	92660
3251-016-022	TEJON RANCHCORP INC		PO BOX 1000	LEBEC	CA	93243
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Appendix F

Field Management Plan

Southern California Edison

EMF Field Management Plan

SCE TLRR Gorman-Kern River 66 kV Project

Issue 8 – February 01, 2022

GKR EMF Field Management Plan

SCE TLRR Gorman-Kern River 66 kV Project

Issue 8 – February 01, 2022

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Acronyms and Abbreviations

A, Amps	Amperes, a unit of measure for electrical current
AC	Alternating current
AAC	All aluminum conductor, a type of overhead power line conductor
ACCC	Aluminum conductor composite core, a type of "high-temperature low-sag" overhead power line conductor
ACSR	Aluminum conductor steel reinforced, a type of overhead power line conductor
CDHS	California Department of Health Services
CPCN	Certificate of Public Convenience and Necessity
CPUC	California Public Utilities Commission
D/C	Double Circuit line construction
DI	Ductile Iron, a type of transmission structure
ELF	Extremely low frequency
EMF	Electric and magnetic fields
EPRI	Electric Power Research Institute
FMP	Field Management Plan
Ft	Feet, a unit of measure for distance
GO	General Order
GKR	Gorman-Kern River subtransmission line
HTLS	High-temperature low-sag, a type of overhead conductor
Hz	Hertz, a unit of measure for electrical frequency
IARC	International Agency for Research on Cancer
IEEE	Institute of Electrical and Electronics Engineers
IEC	International Electrotechnical Commission
kcmil	Kilo (thousand) circular mils, a unit of conductor size and measurement
kV	Kilovolt, a unit of measure for electrical potential
LWS	Light weight steel, a type of transmission structure
mG	milliGauss, a unit of measure for magnetic fields
NIEHS	National Institute of Environmental Health Sciences (USA)
NRBB	National Radiological Protection Board (UK)
°	Degrees, a unit of measure for electric phasors

OHGW	Overhead ground wire
OPGW	Optical ground wire
PEA	Proponent's Environmental Assessment
PTC	Permit to Construct
PLS-CADD	A software program for transmission line design
ROW	Right of way
SCE	Southern California Edison
Str	Structure
TLRR	Transmission Line Rating and Remediation
T/L	Transmission Line
TSP	Tubular steel pole, a type of transmission structure
μT	Microtesla, a unit of measure for magnetic fields
WHO	World Health Organization

Executive Summary

The Field Management Plan (FMP) presented in this report describes the magnetic field reduction design options incorporated into the design of the Southern California Edison Company (SCE) Transmission Line Rating and Remediation (TLRR) Gorman-Kern River 66 kV Project (GKR Project) which consists of the following existing subtransmission circuits:

- Banducci-Kern River 1
- Frazier Park-Gorman
- Gorman-Kern River 1

Segments and Sections

The circuits included in the GKR Project are divided into separate segments as described below, and are further sub-categorized into multiple sections.

- Segment 1: Kern River 1 Hydroelectric Substation to Structure M20-T3
- Segment 2: Structure M20-T3 to Frazier Park Tap
- Segment 3: Frazier Park Tap to Gorman Substation
- Segment 4: Structure M20-T3 to X7666E
- Segment 5: Structure X7666E to Banducci Substation

The GKR Project is proposed to meet the following objectives: Comply with standards contained in CPUC GO 95; and address reliability concerns related to the age and the condition of existing infrastructure on the affected subtransmission lines.

Details pertaining to the GKR Project subtransmission line infrastructure are provided in the Proponent's Environmental Assessment (PEA).

Codes and Standards

The FMP for the GKR Project has been prepared in accordance with the California Public Utilities Commission (CPUC) Interim electric and magnetic fields (EMF) Decision No. 06-01-042 ("2006 CPUC Decision") and general recommendations supported by the U.S. National Institute of Environmental Health Sciences and also satisfies the CPUC approved EMF Design Guidelines as well as all national and state safety standards for reconductoring and new electric facilities.

Magnetic Field Reduction Measures

SCE provides this FMP to inform all interested parties of the evaluation of "no-cost and low-cost" magnetic field reduction design options being considered and the proposed application of these design options for the GKR Project. The FMP also provides a summary of background information regarding current scientific research related to possible health effects of EMF and the CPUC EMF Policy.

"No-Cost" Magnetic Field Reduction Design Options

The "no-cost" magnetic field reduction design options that are incorporated into the design of the GKR Project include the following utilization of structure types and characteristics which minimize EMF. Vertical and delta

conductor configurations are used to reduce EMF in locations outside the Right of Way. Lastly, taller structure heights are used in areas with potential overhead discrepancies, increasing ground clearance and minimizing EMF.

“Low-Cost” Magnetic Field Reduction Design Options

The “no-cost and low-cost” magnetic field reduction design options implemented for this project are described in Table 1. Several portions of the project which are of specific interest for the EMF study are noted in the table below and will be further addressed in the EMF study for safety concerns. The most significant EMF conditions in each residential area will be modeled and graphed to address previous science studies.

Table 1 – “Low Cost and No Cost” Options Considered for Project

Segment	Start Structure	End Structure	EMF Reduction Design Options	Estimated Cost	Structures in Residential Area
Segment 1	Kern River 1 Hydroelectric Substation	Structure M20-T3	<ul style="list-style-type: none"> Pole Head Configuration Structure Heights 	No cost No cost	1. 2241821E_2241822E-M6-T7, 2. M10-T2-M10-T3, 3. M17-T4-M17-T5, 4. M18-T3-M18-T4
Segment 2	Structure M20-T3	Frazier Park Tap	<ul style="list-style-type: none"> Pole Head Configuration Structure Heights 	No cost No cost	N/A
Segment 3	Frazier Park Tap	Gorman Substation	<ul style="list-style-type: none"> Pole Head Configuration Structure Heights 	No cost No cost	N/A
Segment 4	Structure M20-T3	Structure X7666E	<ul style="list-style-type: none"> Pole Head Configuration Structure Heights 	No cost No cost	1. M9-T6-M9-T7
Segment 5	Structure X7666E	Banducci Substation	N/A	No cost No cost	N/A

1 EMF Background and Public Research

There are many sources of power frequency¹ electric and magnetic fields, including internal household and building wiring, electrical appliances, and electric power transmission and distribution lines. There have been numerous scientific studies about the potential health effects of EMF. After many years of research, the scientific community has been unable to determine if exposures to EMF cause health hazards. State and federal public health regulatory agencies have determined that setting numeric exposure limits is not appropriate.²

Many of the questions about possible connections between EMF exposures and specific diseases have been successfully resolved due to an aggressive international research program. However, potentially important public health questions remain about whether there is a link between EMF exposures and certain diseases, including childhood leukemia and a variety of adult diseases (e.g., adult cancers and miscarriages). As a result, some health authorities have identified magnetic field exposures as a possible human carcinogen. As summarized in greater detail below, these conclusions are consistent with the following published reports: the National Institute of Environmental Health Sciences (NIEHS) 1999³, the National Radiation Protection Board (NRPB) 2001⁴, the International Commission on non-Ionizing Radiation Protection (ICNIRP) 2001, the California Department of Health Services (CDHS) 2002⁵, the International Agency for Research on Cancer (IARC) 2002⁶ and the World Health Organization (WHO) 2007⁷. The federal government conducted EMF research as a part of a \$45-million research program managed by the NIEHS. This program, known as the EMF RAPID (Research and Public Information Dissemination), submitted its final report to the U.S. Congress on June 15, 1999.

The report concluded that:

- “The scientific evidence suggesting that ELF-EMF exposures pose any health risk is weak.”⁸
- “The NIEHS concludes that ELF-EMF exposure cannot be recognized as entirely safe because of weak scientific evidence that exposure may pose a leukemia hazard.”⁹
- “The NIEHS suggests that the level and strength of evidence supporting ELF-EMF exposure as a human health hazard are insufficient to warrant aggressive regulatory actions; thus, we do not recommend actions such as stringent standards on electric appliances and a national program to bury all transmission and distribution lines. Instead, the evidence suggests passive measures such as a continued emphasis on educating both the public and the regulated community on means aimed at reducing exposures. NIEHS suggests that the power industry continue its current practice of siting power lines to reduce exposures and

¹ In U.S., it is 60 Hertz (Hz).

² CPUC Decision 06-01-042, p. 6, footnote 10.

³ National Institute of Environmental Health Sciences’ Report on Health Effects from Exposures to Power-Line frequency Electric and Magnetic Fields, NIH Publication No. 99-4493, June 1999.

⁴ National Radiological Protection Board, Electromagnetic Fields and the Risk of Cancer, Report of an Advisory Group on Non-ionizing Radiation, Chilton, U.K. 2001.

⁵ California Department of Health Services, An Evaluation of the Possible Risks from Electric and Magnetic Fields from Power Lines, Internal Wiring, Electrical Occupations, and Appliances, June 2002.

⁶ World Health Organization / International Agency for Research on Cancer, IARC Monographs on the evaluation of carcinogenic risks to humans (2002), Non-ionizing radiation, Part 1: Static and extremely low frequency (ELF) electric and magnetic fields, IARC Press, Lyon, France: International Agency for Research on Cancer, Monograph, vol. 80, p. 338, 2002.

⁷ WHO, Environmental Health Criteria 238, EXTREMELY LOW FREQUENCY FIELDS, 2007.

⁸ National Institute of Environmental Health Sciences, NIEHS Report on Health Effects from Exposures to Power-Frequency Electric and Magnetic Fields, p. ii, NIH Publication No. 99-4493, 1999.

⁹ *Ibid.*, p. iii.

continue to explore ways to reduce the creation of magnetic fields around transmission and distribution lines without creating new hazards.”¹⁰

In 2001, Britain’s NRPB arrived at a similar conclusion:

“After a wide-ranging and thorough review of scientific research, an independent Advisory Group to the Board of NRPB has concluded that the power frequency electromagnetic fields that exist in the vast majority of homes are not a cause of cancer in general. However, some epidemiological studies do indicate a possible small risk of childhood leukemia associated with exposures to unusually high levels of power frequency magnetic fields.”¹¹

In 2002, three scientists for CDHS concluded:

“To one degree or another, all three of the [CDHS] scientists are inclined to believe that EMFs can cause some degree of increased risk of childhood leukemia, adult brain cancer, Lou Gehrig’s disease, and miscarriage. They [CDHS] strongly believe that EMFs do not increase the risk of birth defects, or low birth weight.

They [CDHS] strongly believe that EMFs are not universal carcinogens, since there are a number of cancer types that are not associated with EMF exposure. To one degree or another they [CDHS] are inclined to believe that EMFs do not cause an increased risk of breast cancer, heart disease, Alzheimer’s disease, depression, or symptoms attributed by some to a sensitivity to EMFs. However, all three scientists had judgments that were “close to the dividing line between believing and not believing” that EMFs cause some degree of increased risk of suicide. For adult leukemia, two of the scientists are ‘close to the dividing line between believing or not believing’ and one was ‘prone to believe’ that EMFs cause some degree of increased risk.”¹²

In addition, in 2002, the World Health Organization’s (WHO) IARC concluded:

“EMF magnetic fields are possibly carcinogenic to humans”¹³, based on consistent statistical associations of high-level residential magnetic fields with a doubling of risk of childhood leukemia...Children who are exposed to residential EMF magnetic fields less than 0.4 microTesla (4.0 milliGauss) have no increased risk for leukemia.... In contrast, “no consistent relationship has been seen in studies of childhood brain tumors or cancers at other sites and residential EMF electric and magnetic fields.”¹⁴

In June of 2007, the WHO issued a report on their multi-year investigation of EMF and the possible health effects. After reviewing scientific data from numerous EMF and human health studies, they concluded:

“Scientific evidence suggesting that every day, chronic low-intensity (above 0.3- 0.4 μ T [3-4 mG]) power-frequency magnetic field exposure poses a health risk is based on epidemiological studies demonstrating a consistent pattern of increased risk for childhood leukemia.”¹⁵ “In addition, virtually all of the laboratory evidence and the mechanistic evidence fail to support a relationship

¹⁰ *Ibid.*, p. 37 – 38

¹¹ NRPB, NRPB Advisory Group on Non-ionizing Radiation Power Frequency Electromagnetic Fields and the Risk of Cancer, NRPB Press Release May 2001.

¹² CDHS, An Evaluation of the Possible Risks From Electric and Magnetic Fields (EMFs) From Power Lines, Internal Wiring, Electrical Occupations and Appliances, p. 3, 2002.

¹³ IARC, Monographs, Part I, Vol. 80, p. 338.

¹⁴ *Ibid.*, p. 332 – 334.

¹⁵ WHO, Environmental Health Criteria 238, EXTREMELY LOW FREQUENCY FIELDS, p. 11 - 13, 2007.

between low-level ELF magnetic fields and changes in biological function or disease status. Thus, on balance, the evidence is not strong enough to be considered causal, but sufficiently strong to remain a concern.”¹⁶

“A number of other diseases have been investigated for possible association with ELF magnetic field exposure. These include cancers in both children and adults, depression, suicide, reproductive dysfunction, developmental disorders, immunological modifications, and neurological disease. The scientific evidence supporting a linkage between ELF magnetic fields and any of these diseases is much weaker than for childhood leukemia and in some cases (for example, for cardiovascular disease or breast cancer) the evidence is sufficient to give confidence that magnetic fields do not cause the disease”¹⁷

“Furthermore, given both the weakness of the evidence for a link between exposure to ELF magnetic fields and childhood leukemia, and the limited impact on public health if there is a link, the benefits of exposure reduction on health are unclear. Thus, the costs of precautionary measures should be very low.”¹⁸

2 Application of CPUC EMF Policy

Recognizing the scientific uncertainty over the connection between EMF exposures and health effects, the CPUC adopted a policy that addresses public concern over EMF with a combination of education, information, and precaution-based approaches. Specifically, Decision 93-11-013 established a precautionary based “no-cost and low-cost” EMF policy for California’s regulated electric utilities based on recognition that scientific research had not demonstrated that exposures to EMF cause health hazards and that it was inappropriate to set numeric standards that would limit exposure.

In 2006, the CPUC completed its review and updated its EMF Policy in Decision 06-01-042. This decision reaffirmed the finding that state and federal public health regulatory agencies have not established a direct link between exposure to EMF and human health effects,¹⁹ and the policy direction that (1) use of numeric exposure limits was not appropriate in setting utility design guidelines to address EMF,²⁰ and (2) existing “no-cost and low-cost” precautionary-based EMF policy should be continued for proposed electrical facilities. In addition, the decision also reaffirmed that EMF concerns brought up during Certificate of Public Convenience and Necessity (CPCN) and Permit to Construct (PTC) proceedings for electric transmission and substation facilities should be limited to the utility’s compliance with the CPUC’s “no-cost and low-cost” policies.²¹

¹⁶ *Ibid.*, p. 12.

¹⁷ *Ibid.*, p. 12.

¹⁸ *Ibid.*, p. 13.

¹⁹ CPUC Decision 06-01-042, Conclusion of Law No. 5, mimeo. p. 19 (“As discussed in the rulemaking, a direct link between exposure to EMF and human health effects has yet to be proven despite numerous studies including a study ordered by this Commission and conducted by DHS.”)

²⁰ CPUC Decision 06-01-042, mimeo. p. 17 - 18 (“Furthermore, we do not request that utilities include nonroutine mitigation measures, or other mitigation measures that are based on numeric values of EMF exposure, in revised design guidelines or apply mitigation measures to reconfigurations or relocations of less than 2,000 feet, the distance under which exemptions apply under GO 131-D. Non-routine mitigation measures should only be considered under unique circumstances.”).

²¹ CPUC Decision 06-01-042, Conclusion of Law No. 2, (“EMF concerns in future CPCN and PTC proceedings for electric and transmission and substation facilities should be limited to the utility’s compliance with the Commission’s low-cost/no-cost policies.”).

The decision directed regulated utilities to hold a workshop to develop standard approaches for EMF Design Guidelines; such a workshop was held on February 21, 2006. Consistent design guidelines have been developed to describe the routine magnetic field reduction measures that regulate California electric utilities utilize for new and upgraded transmission line and transmission substation projects. SCE filed its revised EMF Design Guidelines with the CPUC on July 26, 2006.

“No-cost and low-cost” measures to reduce magnetic fields would be implemented for this Project in accordance with SCE’s EMF Design Guidelines. In summary, the process of evaluating “no-cost and low-cost” magnetic field reduction measures and prioritizing within and between land usage classes considers the following:

1. SCE’s priority in the design of any electrical facility is public and employee safety. Without exception, design and construction of an electric power system must comply with all applicable federal, state, and local regulations, applicable safety codes, and each electric utility’s construction standards. Furthermore, transmission and subtransmission lines and substations must be constructed so that they can operate reliably at their design capacity. Their design must be compatible with other facilities in the area and the cost to operate and maintain the facilities must be reasonable.
2. As a supplement to Step 1, SCE follows the CPUC’s direction to undertake “no-cost and low-cost” magnetic field reduction measures for new and upgraded electrical facilities. Any proposed “no-cost and low-cost” magnetic field measures, must, however, meet the requirements described in Step 1 above. The CPUC defines “no-cost and low-cost” measures as follows:
 - Low-cost measures, in aggregate, should:
 - Cost in the range of 4 percent of the total project cost.
 - Result in magnetic field reductions of “15% or greater at the utility R-O-W ([right-of-way] ...)”²²

The CPUC Decision stated,

“We direct the utilities to use 4 percent as a benchmark in developing their EMF mitigation guidelines. We will not establish 4 percent as an absolute cap at this time because we do not want to arbitrarily eliminate a potential measure that might be available but costs more than the 4 percent figure. Conversely, the utilities are encouraged to use effective measures that cost less than 4 percent.”²³

3. The CPUC provided further policy direction in Decision 06-01-042, stating that, “although equal mitigation for an entire class is a desirable goal, we will not limit the spending of EMF mitigation to zero on the basis that not all class members can benefit.”²⁴ While Decision 06-01-042 directs the utilities to favor schools, day-care facilities and hospitals over residential areas when applying low-cost magnetic field reduction measures, prioritization within a class can be difficult on a project case-by-case basis because schools, day-care facilities, and hospitals are often integrated into residential areas, and many licensed day-care facilities are housed in private homes, and can be easily moved from one location to another. Therefore, it may be practical for public schools, licensed day-care centers, hospitals, and residential land uses to be grouped together to receive highest prioritization for low-cost magnetic field reduction measures. Commercial and industrial areas may be grouped as a second priority group, followed by recreational and agricultural areas as the third group. Low-cost magnetic field reduction measures will not be considered for undeveloped land, such as open space, state and national parks, and Bureau of Land Management and U.S. Forest Service

²² CPUC Decision 06-01-042, p. 10.

²³ CPUC Decision 93-11-013, § 3.3.2, p.10.

²⁴ CPUC Decision 06-01-042, p. 10.

lands. When spending for low-cost measures would otherwise disallow equitable magnetic field reduction for all areas within a single land-use class, prioritization can be achieved by considering location and/or density of permanently occupied structures on lands adjacent to the projects, as appropriate.

This FMP contains descriptions of various magnetic field models and the calculated results of magnetic field levels based on those models. These calculated results are provided only for purposes of identifying the relative differences in magnetic field levels among various transmission or subtransmission line design alternatives under a specific set of modeling assumptions and determining whether design alternatives can achieve magnetic field level reductions of 15 percent or more at the edges of the right-of-way. The calculated results are not intended to be predictors of the actual magnetic field levels at any given time or at any specific location if and when the Project is constructed. This is because magnetic field levels depend upon a variety of variables, including load growth, customer electricity usage, and other factors beyond SCE's control. The CPUC affirmed this in Decision 06-01-042 stating:

"Our [CPUC] review of the modeling methodology provided in the utility [EMF] design guidelines indicates that it accomplishes its purpose, which is to measure the relative differences between alternative mitigation measures. Thus, the modeling indicates relative differences in magnetic field reductions between different transmission line construction methods but does not measure actual environmental magnetic fields."²⁵

2.1 Project Description

The GKR Project is proposed to meet the following objectives: Comply with standards contained in CPUC GO 95; and address reliability concerns related to the age and the condition of existing infrastructure on the affected subtransmission lines.

To meet these objectives, the GKR Project proposes to replace structures, to install new conductor, and to install OPGW for improved grounding and substation communications. The existing line is approximately 83.6 miles long and is comprised mainly of steel lattice towers (63%) and wood monopoles (35%), with several wooden H-Frames (2%). The original line was constructed in 1903, but many structure replacements have occurred since then. The existing conductor consists of 336.4 ACSR 30/7 "Oriole", 336.4 ACSR 18/1 "Merlin", and 4/0 7-strand copper. The existing line is designed to carry an emergency 4-hour ampacity of 680 amps but only a normal operation ampacity of 540 Amps.

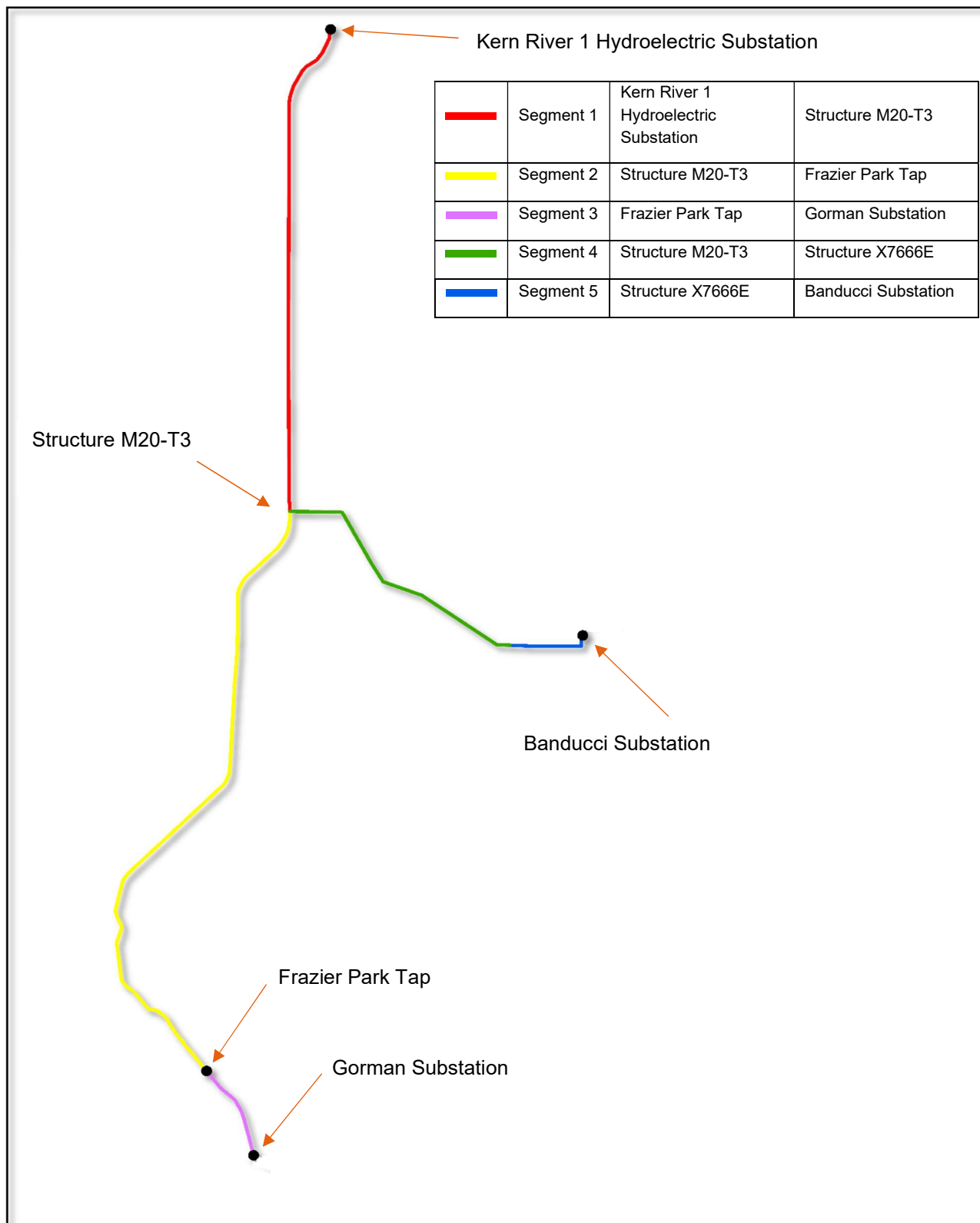
2.2 Geographic Segments

The Project has been divided into the following geographic segments in the PEA report submittal:

Segment	Start Structure	End Structure	Approx. Length
Segment 1	Kern River 1 Hydroelectric Substation	Structure M20-T3	20.3 mi.
Segment 2	Structure M20-T3	Frazier Park Tap	26.9 mi.
Segment 3	Frazier Park Tap	Gorman Substation	4.0 mi.
Segment 4	Structure M20-T3	Structure X7666E	11.1 mi.
Segment 5	Structure X7666E	Banducci Substation	3.0 mi.

²⁵ CPUC Decision 06-01-042, p. 11.

Figure 1 – Gorman-Kern River 66 kV Subtransmission Line Route and Segments



3 Summary of Project Components by Segment

Segment 1 Proposed Construction Activities

The majority of existing structures and all conductors would be removed and new structures and conductor would be installed along the length of Segment 1. Some existing structures would be modified and remain in-place. OPGW would be installed on the new structures.

Segment 2 Proposed Construction Activities

The existing structures and conductor would be removed, and new structures and conductor would be installed along the length of Segment 2. OPGW would be installed on the new structures.

Segment 3 Proposed Construction Activities

The existing structures and conductor would be removed and new structures and conductor would be installed along the length of Segment 3. OPGW would be installed on the new structures.

Segment 4 Proposed Construction Activities

The existing structures and conductor would be removed and new structures and conductor would be installed along the length of Segment 4. OPGW would be installed on the new structures.

Segment 5 Proposed Construction Activities

Some existing poles would be removed, and replacement poles would be installed, and other structures would be modified. The existing conductor and cable attached to the existing poles would be transferred to the new poles. Third-party infrastructure may be transferred or left in-place on existing poles. Insulators and other hardware on adjoining poles may be modified to accommodate the taller new poles. ADSS fiber optic cable would be installed along the length of Segment 5.

The EMF analysis is broken into two evaluations. The first is a segment evaluation, which estimates a typical calculated magnetic field for each segment. The second is a residential evaluation which identifies potential EMF exposure locations and estimates a calculated magnetic field for those locations.

4 Segment Evaluation

A series of EMF analyses were completed on the GKR Project, and a calculated typical EMF profile is shown for each segment as well as an existing conditions calculation. Values shown in this report are not meant to be predictive of any date or any time but are to be used for a comparison of structure arrangements.

Segment 1: Kern River 1 Hydroelectric Substation to Structure M20-T3

The portion from Kern River 1 Hydroelectric Substation to Structure M20-T3 represents Segment 1. The calculated magnetic fields for Segment 1 can be found in Figure 3 and Table 2. The magnetic field calculations were obtained using a PLS-CADD model line and a normal amperage. The calculations exceed the assumed ROW by 25% or more on either side for display and informational purposes only. For the line graphs and data, the proposed amperage is 540 amps, and the existing normal amperage is 540 Amps.

Segment 2: Structure M20-T3 to Frazier Park Tap

The portion from Structure M20-T3 to Frazier Park Tap represents Segment 2. The calculated magnetic fields for Segment 2 can be found in Figure 5 and Table 3. The magnetic field calculations were obtained using a PLS-CADD model line and a normal amperage. The calculations exceed the assumed ROW by 25% or more on either side for display and informational purposes only. For the line graphs and data, the proposed amperage is 540 amps, and the existing normal amperage is 540 Amps.

Segment 3: Frazier Park Tap to Gorman Substation

The portion from Frazier Park Tap to Gorman Substation represents Segment 3. A series of EMF analyses were completed on the Gorman-Kern River (GKR) 66 kV project and a calculated typical EMF profile is shown for each segment. The calculated magnetic fields for Segment 3 can be found in Figure 7 and Table 4. The magnetic field calculations were obtained using a PLS-CADD model line and a normal amperage. The calculations exceed the assumed ROW by 25% or more on either side for display and informational purposes only. For the line graphs and data, the proposed amperage is 540 amps, and the existing normal amperage is 540 Amps.

Segment 4: Structure M20-T3 to Structure X7666E

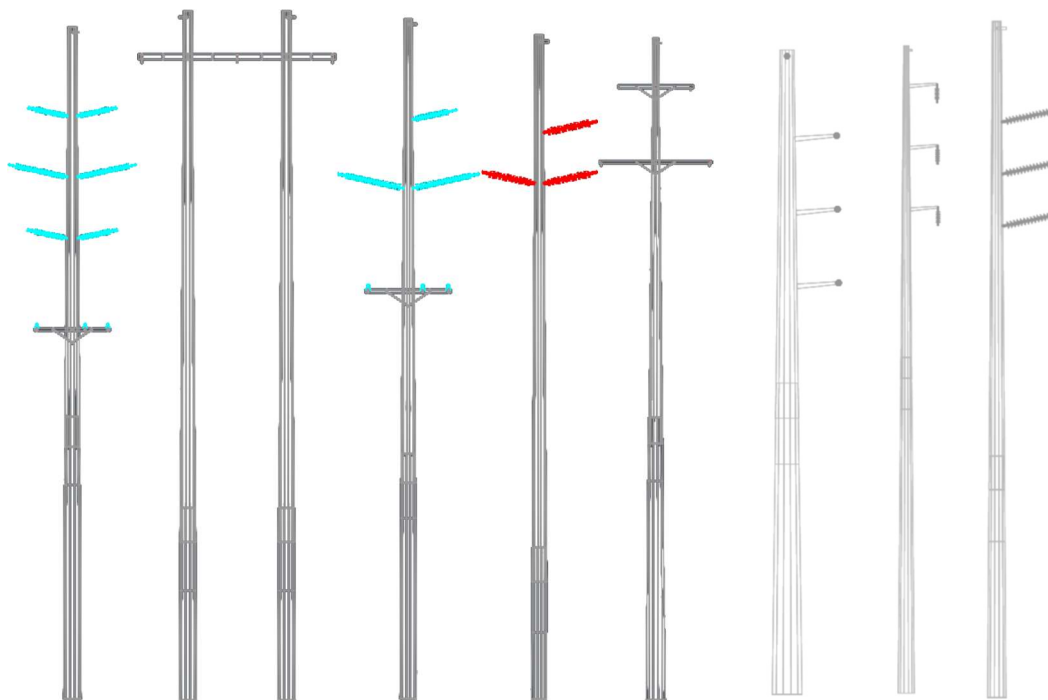
The portion from Structure M20-T3 to Banducci Substation represents Segment 4. The calculated magnetic fields for Segment 4 can be found in Figure 9 and Table 5. The magnetic field calculations were obtained using a PLS-CADD model line and a normal amperage. The calculations exceed the assumed ROW by 25% or more on either side for display and informational purposes only. For the line graphs and data, the proposed amperage is 540 amps, and the existing normal amperage is 540 Amps.

Segment 5: Structure X7666E to Banducci Substation

The portion from Structure M20-T3 to Banducci Substation represents Segment 5. The calculated magnetic fields for Segment 5 can be found in Figure 11 and Table 6. The magnetic field calculations were obtained using a PLS-CADD model line and a normal amperage. The calculations exceed the assumed ROW by 25% or more on either side for display and informational purposes only. For the line graphs and data, the proposed amperage is 540 amps, and the existing normal amperage is 540 Amps.

5 Proposed Structures

Figure 2 – Proposed Typical Structure Designs – GKR Project



6 Final Recommendations for Magnetic Field Reduction Design

The GKR Project design can benefit from vertical and delta pole head configuration. Implementing both low cost and no cost measures significantly reduces the magnetic field and potential exposure risk well below CPUC approved EMF Design Guidelines as well as all national and state safety standards for reconductoring or new electric facilities.

Reduction Measures:

1. Configure pole head in a vertical or delta of subtransmission lines for magnetic field reduction. This is considered a no cost measure as the entire line maintains the recommended phase arrangement.
2. Utilize structure heights that meet or exceed EMF preferred design criteria of SCE.
3. Change the phase arrangement as the circuit enters the substation thereby changing the final phasing to further reduce the magnetic field.

7 Segment Graphs

The following graphs show the results from calculations done on the lowest spans within each section.

7.1 Segment 1

Figure 3 – Typical Magnetic Field Levels for Segment 1, Kern River 1 Hydroelectric Substation to Structure M20-T3: Structure M15T1 to M15T2 (Looking South)

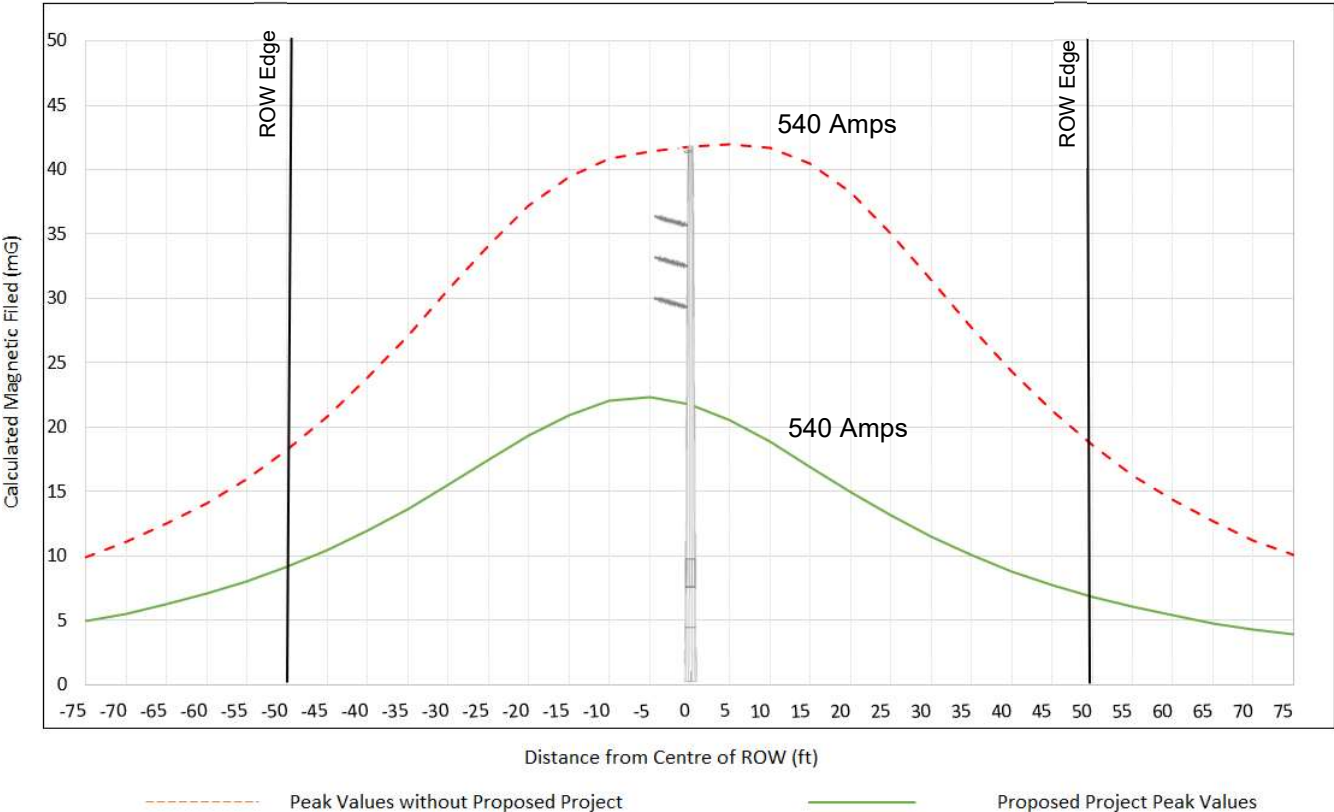


Table 2 – Comparison of Magnetic Fields at Edge of ROW for Segment 1, Structure M15T1 to M15T2

Design Options	Left Edge (mG)	% Change ²⁶	Right Edge (mG)	% Change ²⁶
Projected Peak Values without GKR Project 66 kV T/L	18.245	N/A	18.591	N/A
GKR Project Peak Values 66 kV T/L *	9.108	50% Reduced	6.807	63% Reduced

*The GKR Project alignment is shifted to the left an average of 12 feet transversely and 9 feet longitudinally in either direction in relation to the existing alignment.

²⁶ All data in Percent Change column is compared to the Projected Peak Values without the GKR Project

All calculations were made at a height of 3 feet across the ROW.

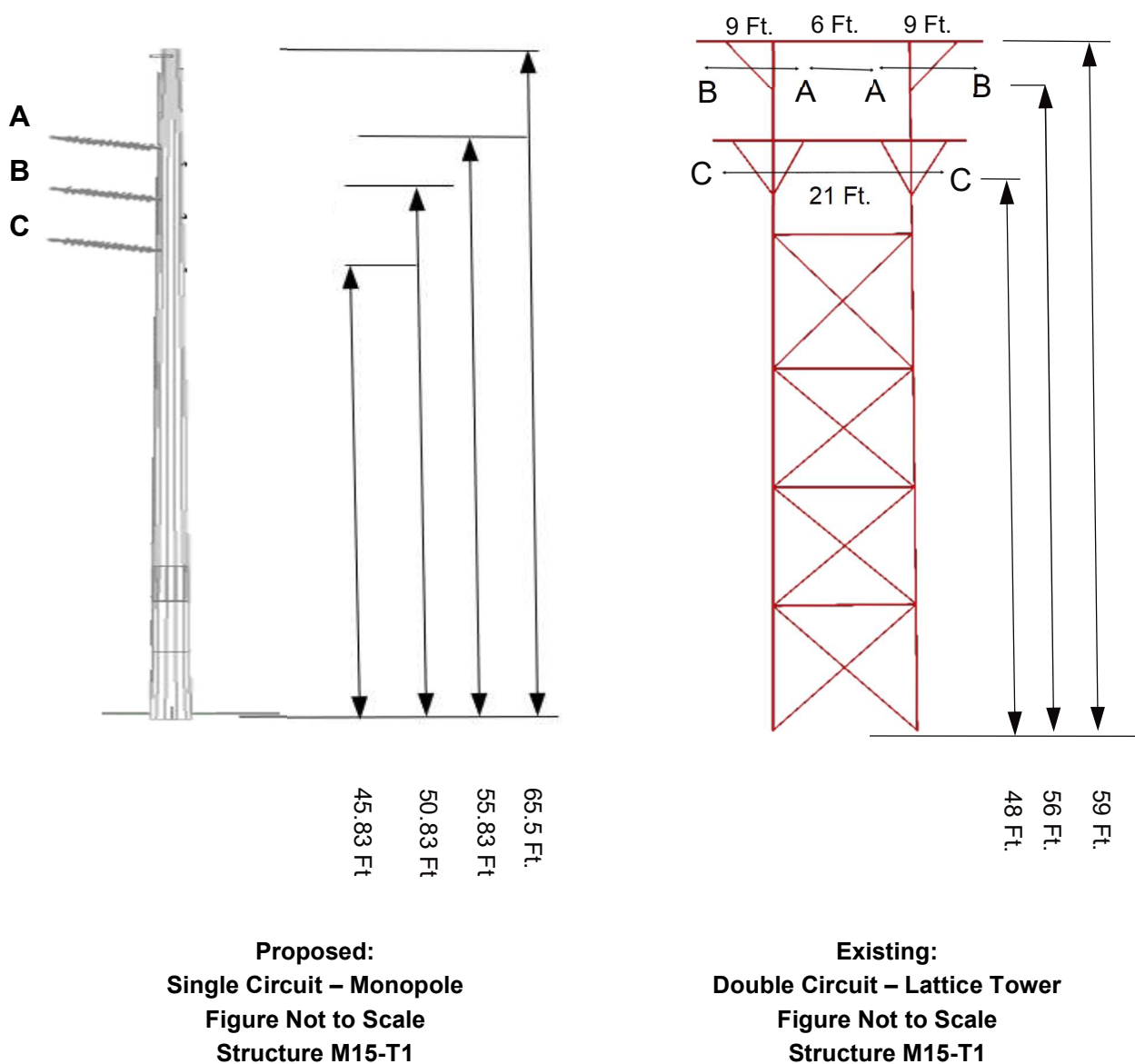
Existing Height and Insulator Length

Height – 59 Ft. Length – 3.1 Ft.

Proposed Construction and Insulator Length

Height – 65.5 Ft. Length – 5.2 Ft.

Figure 4 – Tower and Insulator Dimensions and Phasing for a structure in Segment 1, Kern River 1 Hydroelectric Substation to Structure M20-T3



Dimensions are for the shorter structure, phase angles were assumed and based on approved PLS-CADD models.

7.2 Segment 2

Figure 5 – Typical Magnetic Field Levels for Segment 2, Structure M20-T3 to Frazier Park Tap: Structure M33-T1 to M33-T2 (Looking South)

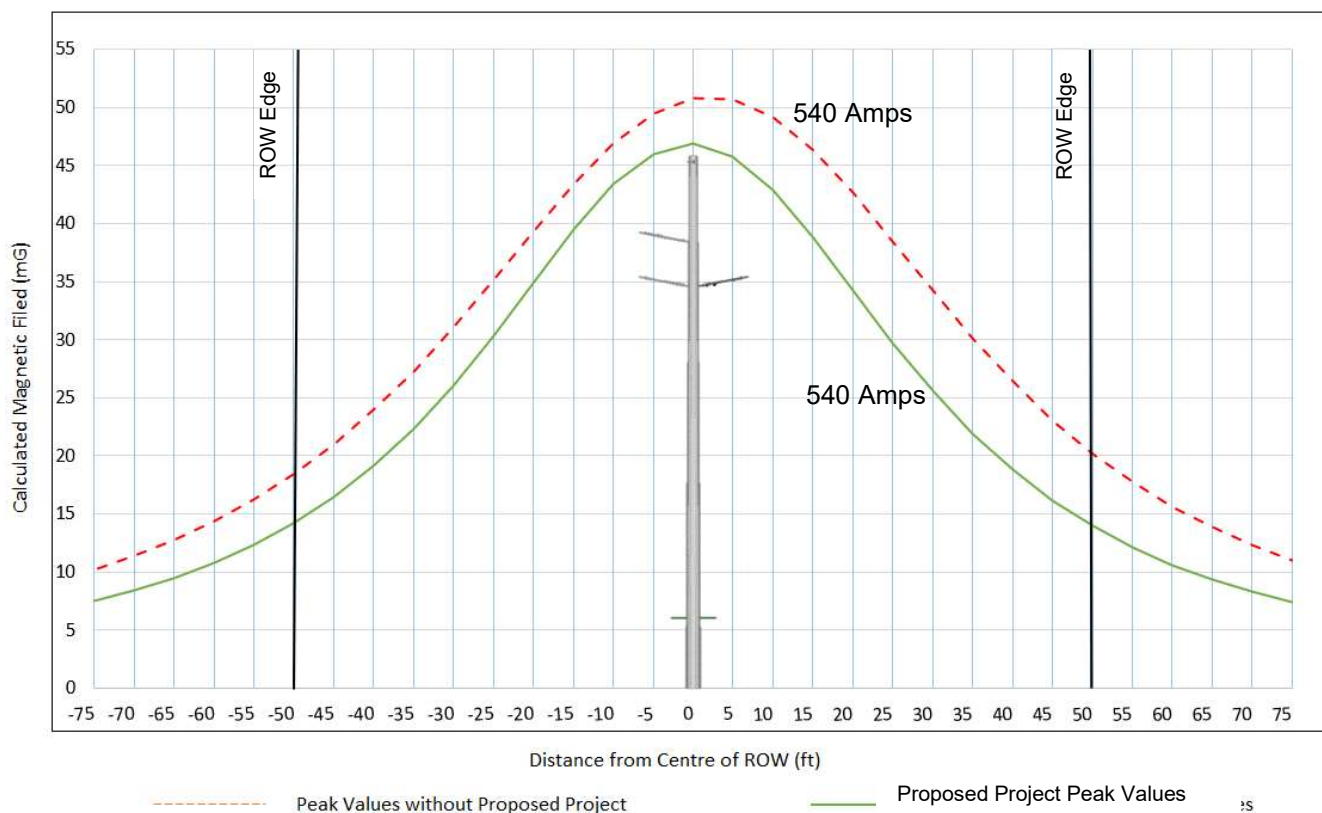


Table 3 – Comparison of Magnetic Fields at Edge of ROW for Segment 2, Structure M33-T1 to M33-T2

Design Options	Left Edge (mG)	% Change ²⁷	Right Edge (mG)	% Change ²⁷
Projected Peak Values without GKR Project 66 kV T/L	18.409	N/A	20.185	N/A
GKR Project Peak Values 66 kV T/L	14.179	23% Reduced	13.942	31% Reduced

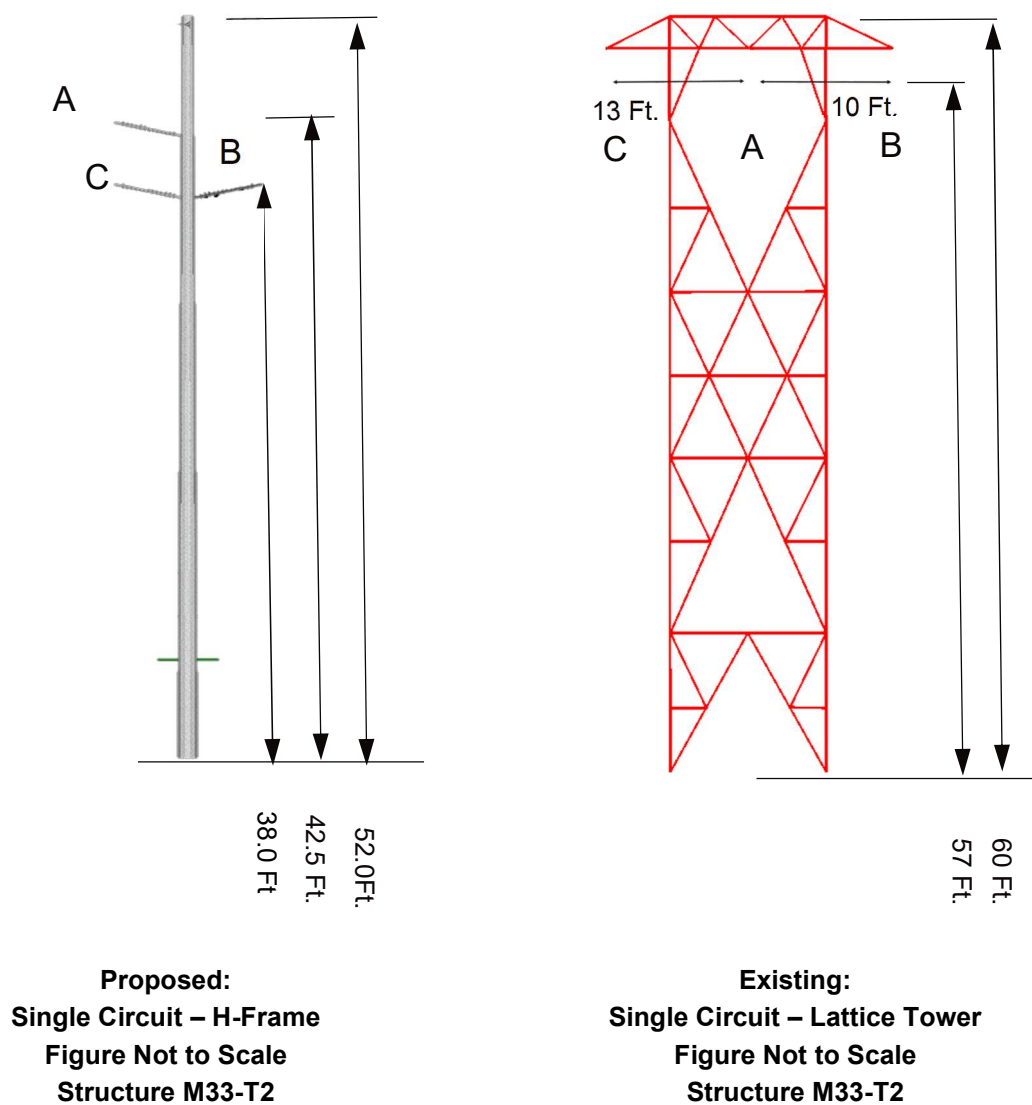
All calculations were made at a height of 3 feet across the ROW.

Existing Height and Insulator Length
Height – 60 Ft. Length – 3.0 Ft.

Proposed Construction and Insulator Length
Height – 56.5 Ft. Length – 3.0 Ft.

²⁷ All data in Percent Change column is compared to the Projected Peak Values without the GKR Project

Figure 6 – Tower and Insulator Dimensions and Phasing for a structure in Segment 2, Structure M20-T3 to X7666E



Dimensions are for the shorter structure, phase angles were assumed and based on approved PLS-CADD models.

7.3 Segment 3

Figure 7 – Typical Magnetic Field Levels for Segment 3, Frazier Park Tap to Gorman Substation: Structure M49-T3 to M49-T4 (Looking South)

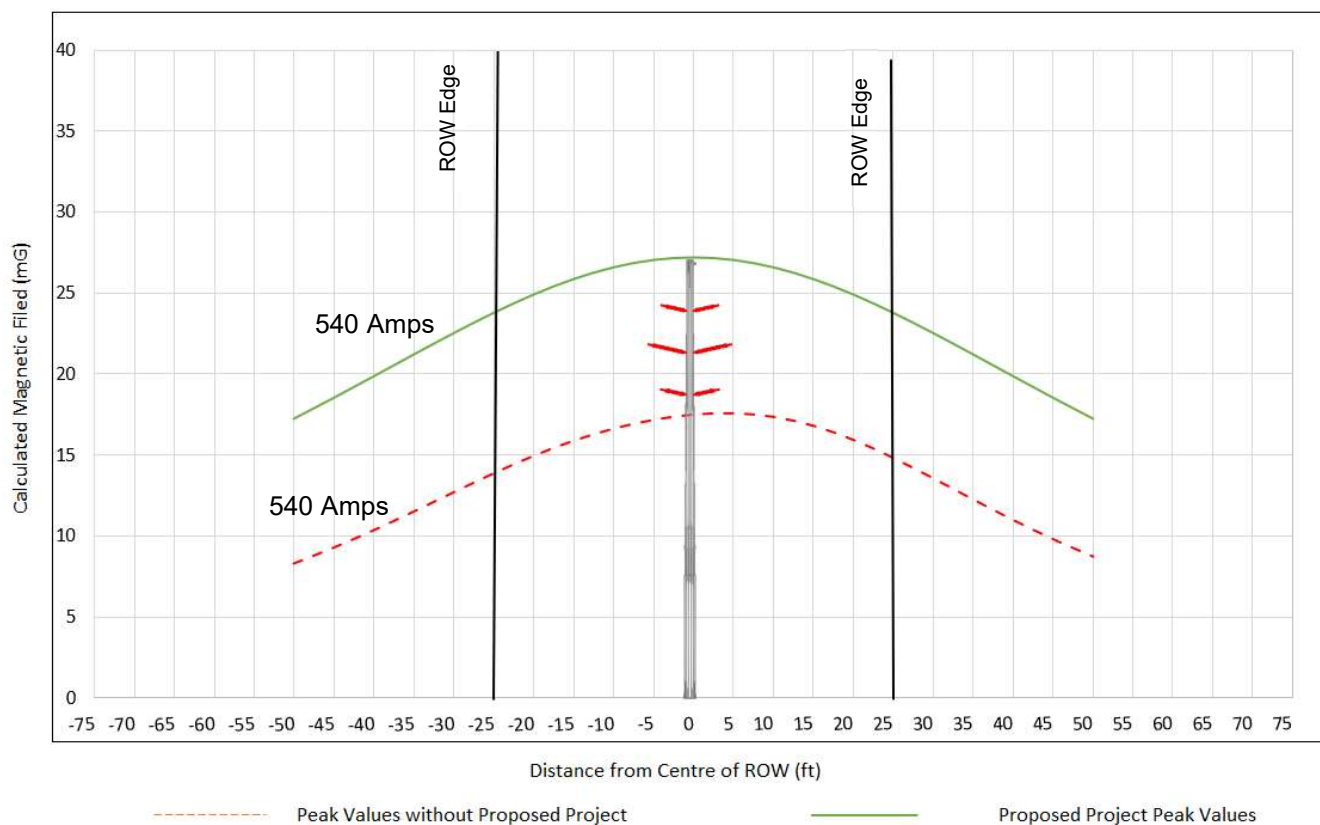


Table 4 – Comparison of Magnetic Fields at Edge of ROW for Segment 3, Structure M49-T3 to M49-T4

Design Options	Left Edge (mG)	% Change ²⁷	Right Edge (mG)	% Change ²⁸
Projected Peak Values without GKR Project 66 kV T/L	13.841	N/A	14.791	N/A
GKR Project Peak Values 66 kV T/L	23.781	72% Increased	23.781	61% Increased

All calculations were made at a height of 3 feet across the ROW.

Existing Height and Insulator Length

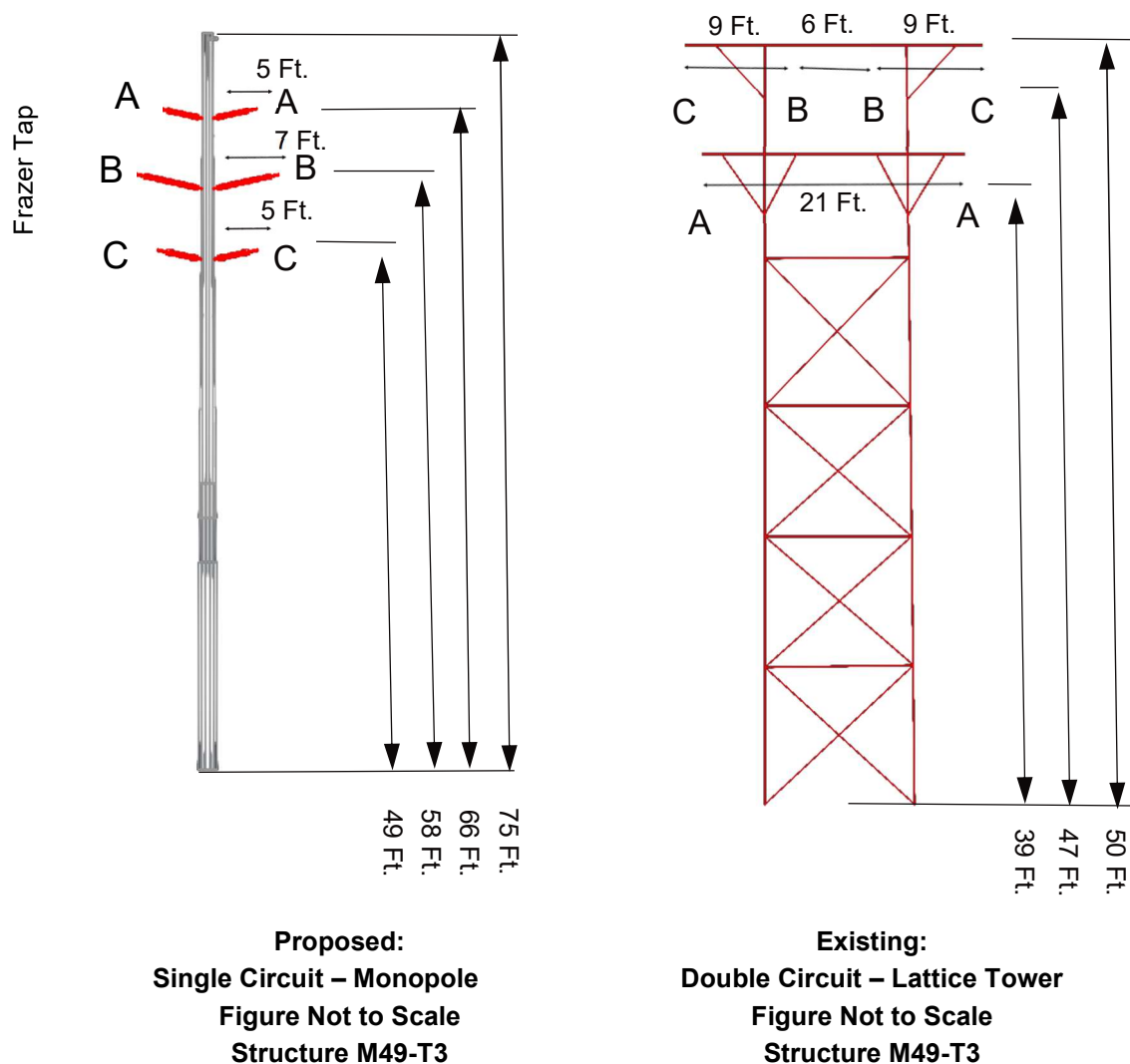
Height – 50 Ft. Length – 2.9 Ft.

Proposed Construction and Insulator Length

Height – 75 Ft. Length – 5.2 Ft.

²⁸ All data in Percent Change column is compared to the Projected Peak Values without the GKR Project

Figure 8 – Tower and Insulator Dimensions and Phasing for a structure in Segment 3, Frazier Park Tap to Gorman Substation



Dimensions are for the shorter structure, phase angles were assumed and based on approved PLS-CADD models.

7.4 Segment 4

Figure 9 – Typical Magnetic Field Levels for Segment 4, Structure M20-T3 to X7666E: Structure M5-T3 to M5-T4 (Looking East)

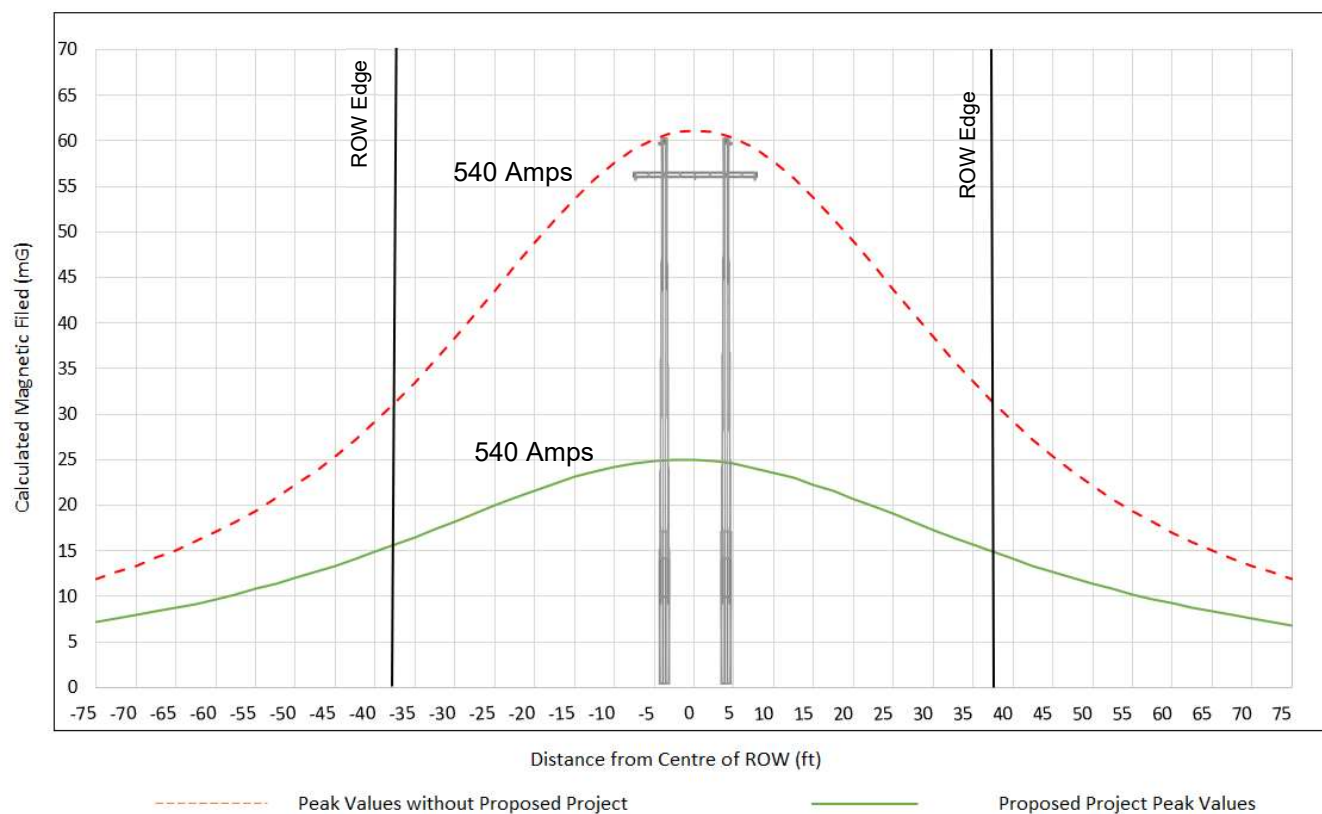


Table 5 – Comparison of Magnetic Fields at Edge of ROW for Segment 4, Structure M5-T3 to M5-T4

Design Options	Left Edge (mG)	% Change ²⁹	Right Edge (mG)	% Change ²⁹
Projected Peak Values without GKR Project 66 kV T/L	31.3	N/A	31.303	N/A
GKR Project Peak Values 66 kV T/L	15.670	50% Reduced	14.843	53% Reduced

All calculations were made at a height of 3 feet across the ROW.

Existing Height and Insulator Length

Height – 68 Ft. Length – 3.0 Ft.

Proposed Construction and Insulator Length

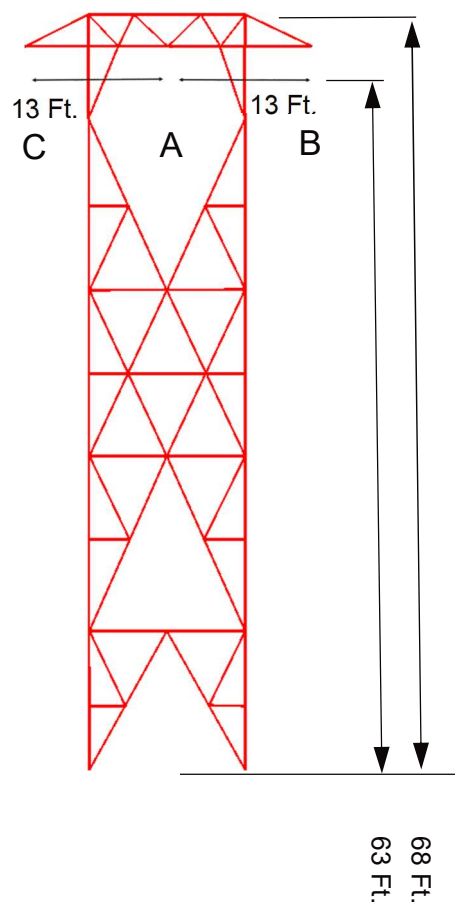
Height – 65 Ft. Length – 3.0 Ft.

²⁹ All data in Percent Change column is compared to the Projected Peak Values without the GKR Project

Figure 10 – Tower and Insulator Dimensions and Phasing for a structure in Segment 4, Structure M20-T3 to X7666E



Proposed:
Single Circuit – H-Frame
Figure Not to Scale
Structure M5-T3

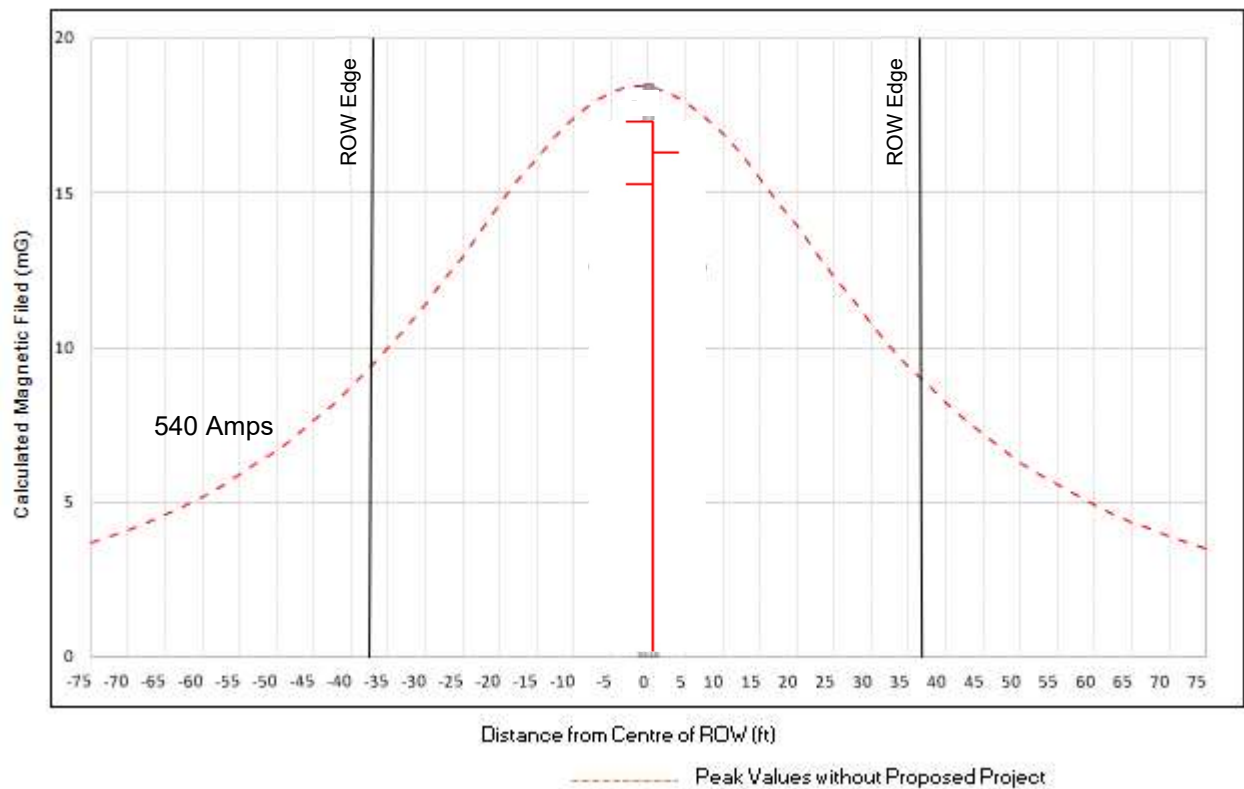


Existing:
Single Circuit – Lattice Tower
Figure Not to Scale
Structure M5-T3

Dimensions are for the shorter structure, phase angles were assumed and based on approved PLS-CADD models.

7.5 Segment 5

Figure 11 – Typical Magnetic Field Levels for Segment 5, Structure X7666E to Banducci Substation: Structure X7656E to X7655E (Looking East) *



*Note: Graph of GKR Project peak values is not shown in Figure 11 since there will not be any changes to the relevant span or structures.

Table 6 – Comparison of Magnetic Fields at Edge of ROW for Segment 5, Structure X7656E to X7655E

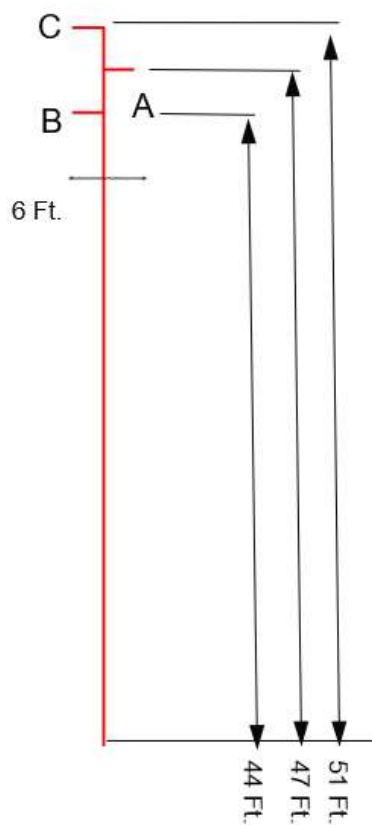
Design Options	Left Edge (mG)	% Change ²⁹	Right Edge (mG)	% Change ³⁰
Existing (As Surveyed) Project Peak Values with 4-o_7_copper 66 kV T/L	9.329	N/A	8.784	N/A

All calculations were made at a height of 3 feet across the ROW.

Existing Height and Insulator Length
Height – 51 Ft. Length – 3.0 Ft.

³⁰ All data in Percent Change column is compared to the Projected Peak Values without the GKR Project

Figure 12 – Tower and Insulator Dimensions and Phasing for a structure in Segment 5, Structure X7666E to Banducci Substation



Existing:
Single Circuit – Wood Pole
Figure not to Scale
(Note: Proposed structures not shown because
there will not be new proposed project on this
span of Segment 5)
Structure X7655E

Dimensions are for the shorter structure, phase angles were assumed and based on approved PLS-CADD models.

8 Residential Evaluation

The graphs below show the results obtained from calculations done on the lowest spans near residential areas. The magnetic field created by these spans are less in magnitude than the worst span in each segment, but these are more of a concern for the residents that live near the ROW.

8.1 Segment 1, Structure 2241821E_2241822E to M8-T7 Span

Figure 13 – Typical Magnetic Field Levels for Segment 1, Span 2241821E_2241822E – M8-T7 (Looking South)

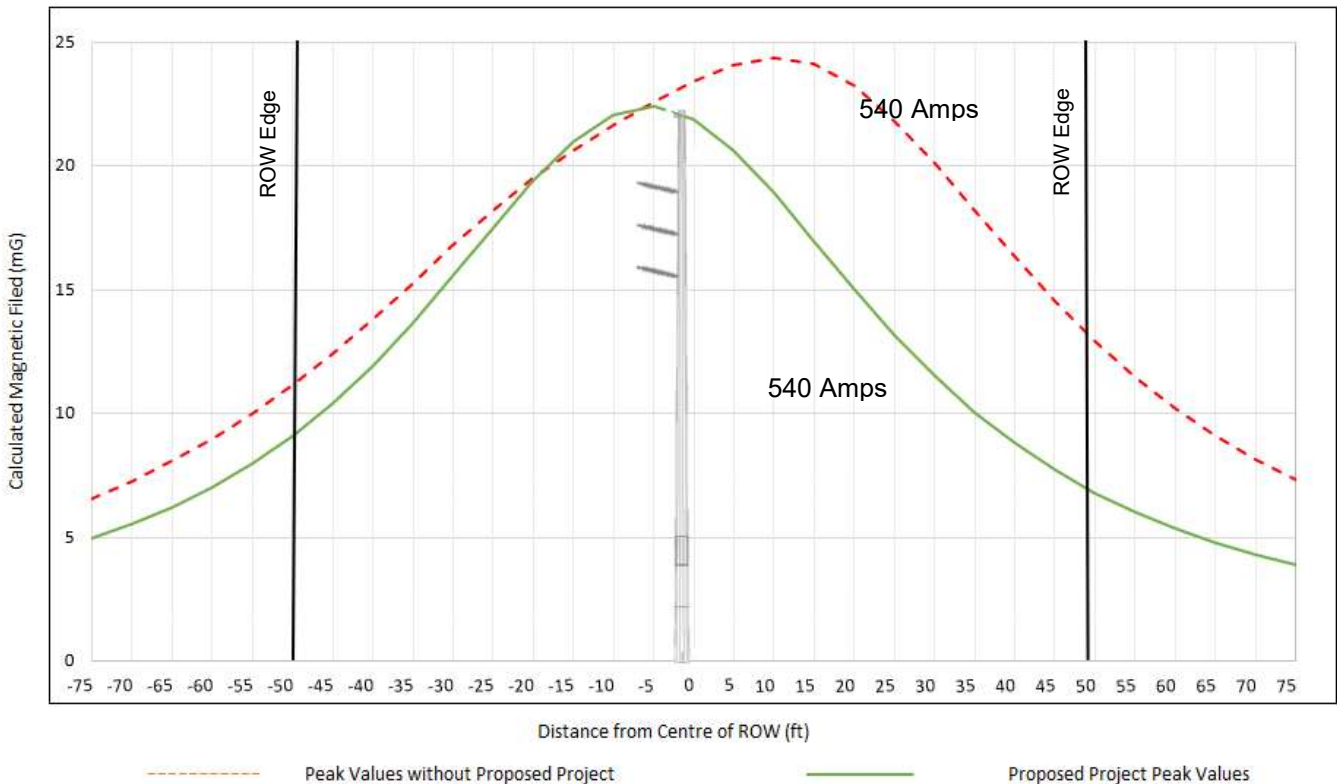


Table 7 – Comparison of Magnetic Fields at Edge of ROW for Segment 1, Structure 2241821E_2241822E to M8-T7

Design Options	Left Edge (mG)	% Change ³⁰	Right Edge (mG)	% Change ³¹
Projected Peak Values without GKR Project 66 kV T/L	11.155	N/A	12.936	N/A
GKR Project Peak Values 66 kV T/L *	9.122	18% Reduced	6.814	47% Reduced

³¹ All data in Percent Change column is compared to the Projected Peak Values without the GKR Project

*The GKR Project alignment is shifted to the left an average of 12 feet transversely and 9 feet longitudinally in either direction in relation to the existing alignment.

All calculations were made at a height of 3 feet across the ROW.

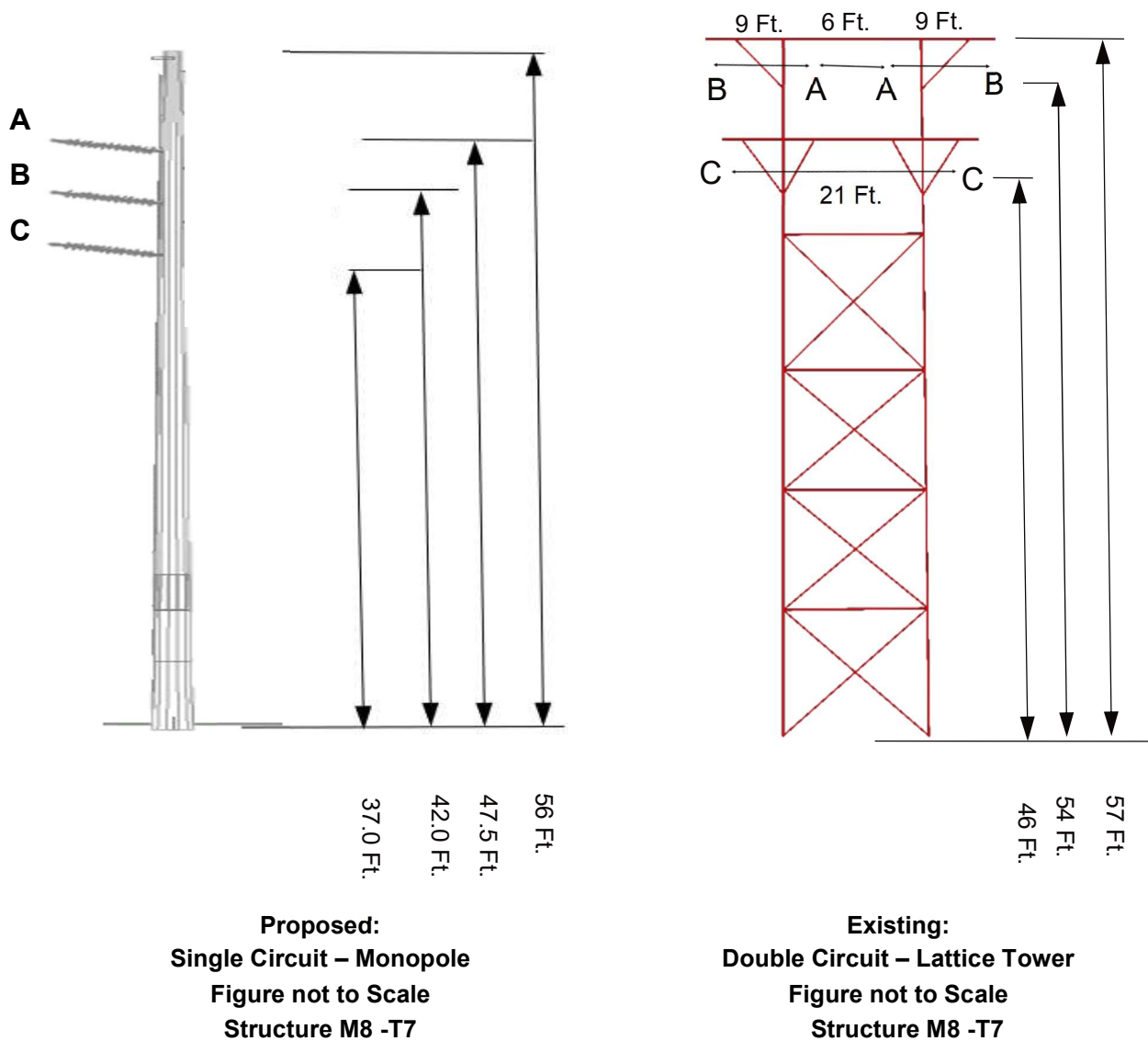
Existing Height and Insulator Length

Height – 57 Ft. Length – 3.1 Ft.

Proposed Construction and Insulator Length

Height – 61 Ft. Length – 5.2 Ft.

Figure 14 – Tower and Insulator Dimensions and Phasing for a structure in Segment ,1 Kern River 1 Hydroelectric Substation to Structure M20-T3



Dimensions are for the shorter structure, phase angles were assumed and based on approved PLS-CADD models.

8.2 Segment 1, Structure M10-T2 to M10-T3 Span

Figure 15 – Typical Magnetic Field Levels for Segment 1, Span M10-T2 – M10T3 (Looking South)

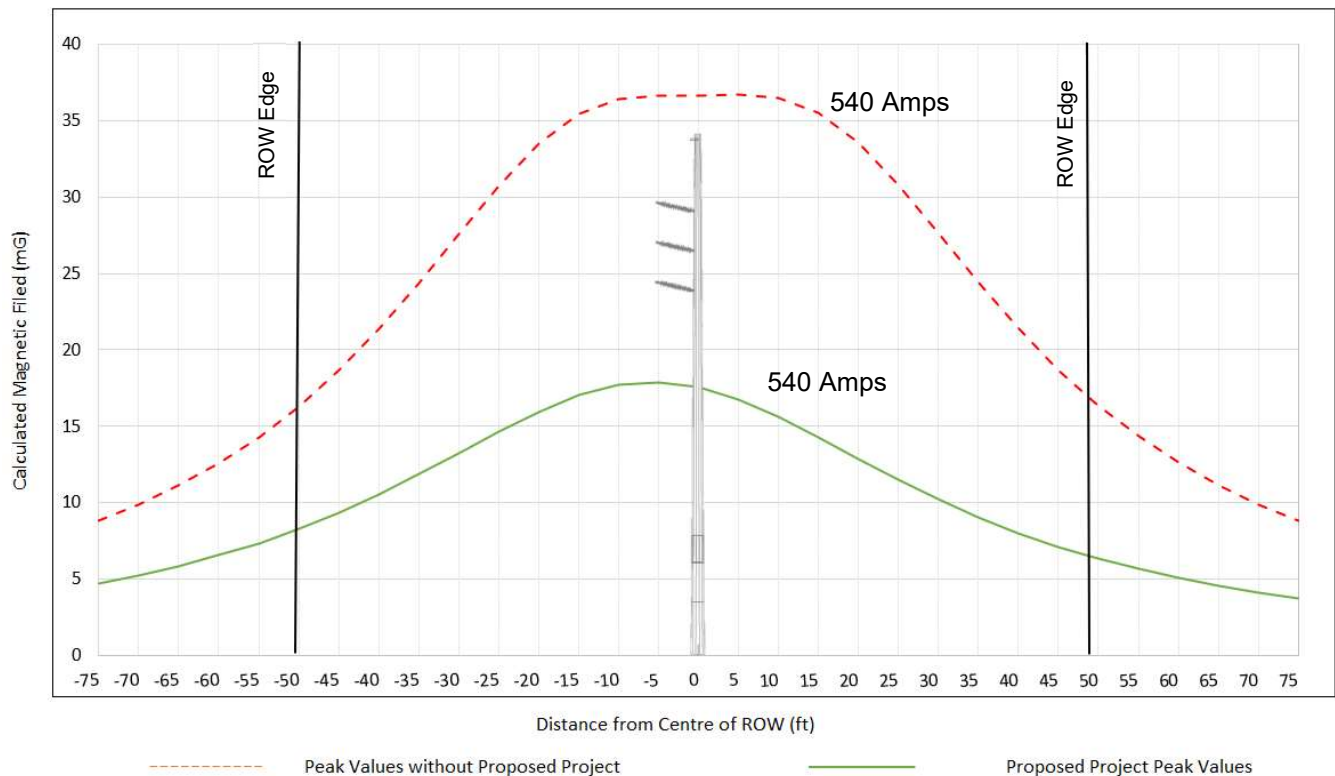


Table 8 – Comparison of Magnetic Fields at Edge of ROW for Segment 1, Structure M10-T2 to M10T3

Design Options	Left Edge (mG)	% Change ³²	Right Edge (mG)	% Change ³¹
Projected Peak Values without GKR Project 66 kV T/L	16.314	N/A	16.356	N/A
GKR Project Peak Values 66 kV T/L *	8.280	49% Reduced	6.333	61% Reduced

*The GKR Project alignment is shifted to the left an average of 12 feet transversely and 9 feet longitudinally in either direction in relation to the existing alignment.

³² All data in Percent Change column is compared to the Projected Peak Values without the GKR Project.

All calculations were made at a height of 3 feet across the ROW.

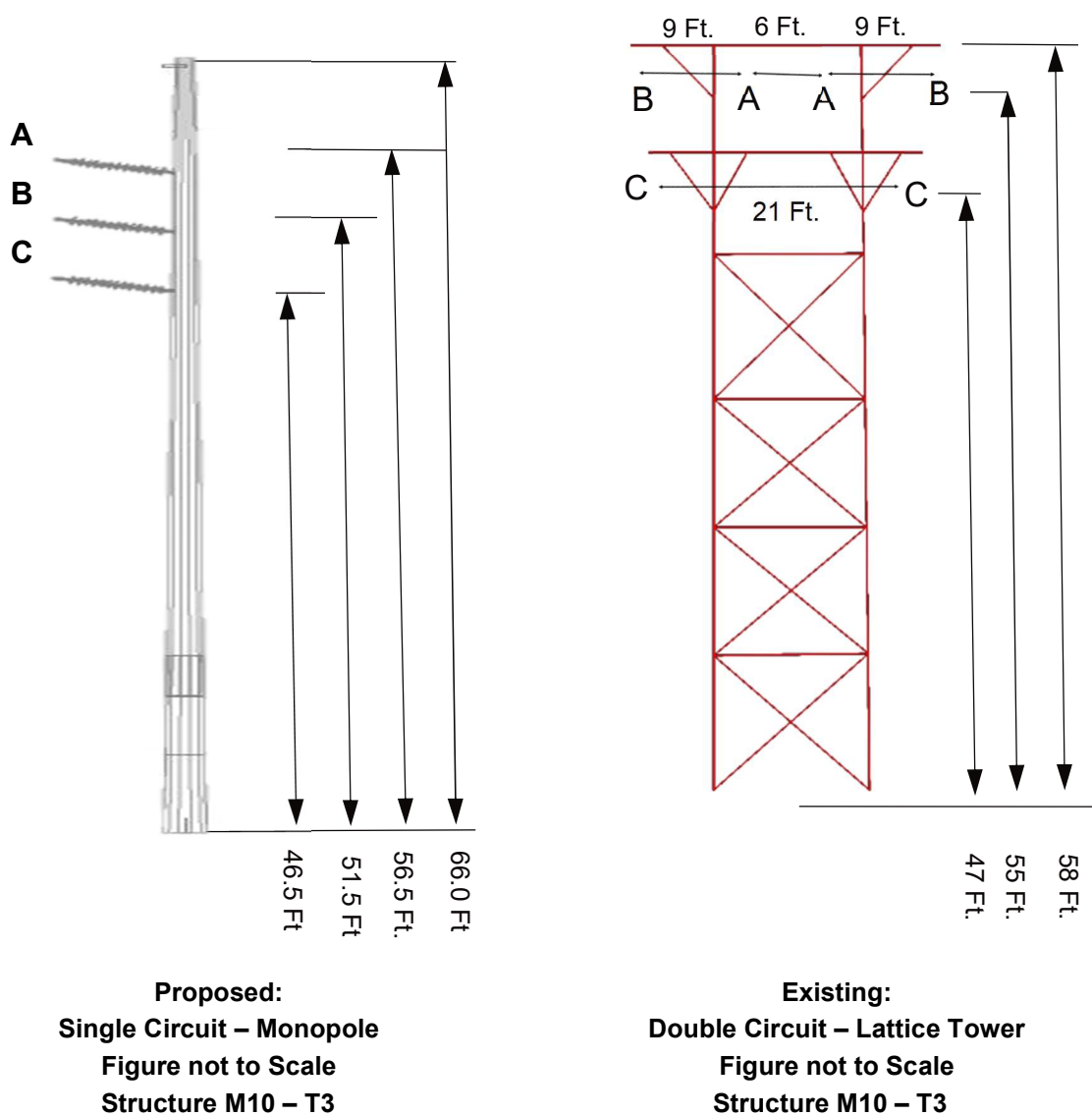
Existing Height and Insulator Length

Height – 58 Ft. Length – 3.1 Ft.

Proposed Construction and Insulator Length

Height – 70 Ft. Length – 5.2 Ft.

Figure 16 – Tower and Insulator Dimensions and Phasing for a structure in Segment 1, Kern River 1 Hydroelectric Substation to Structure M20-T3



8.3 Segment 1, Structure M17-T4 to M17-T5 Span

Figure 17 – Typical Magnetic Field Levels for Segment 1, Span M17-T4 to M17-T5 (Looking South)

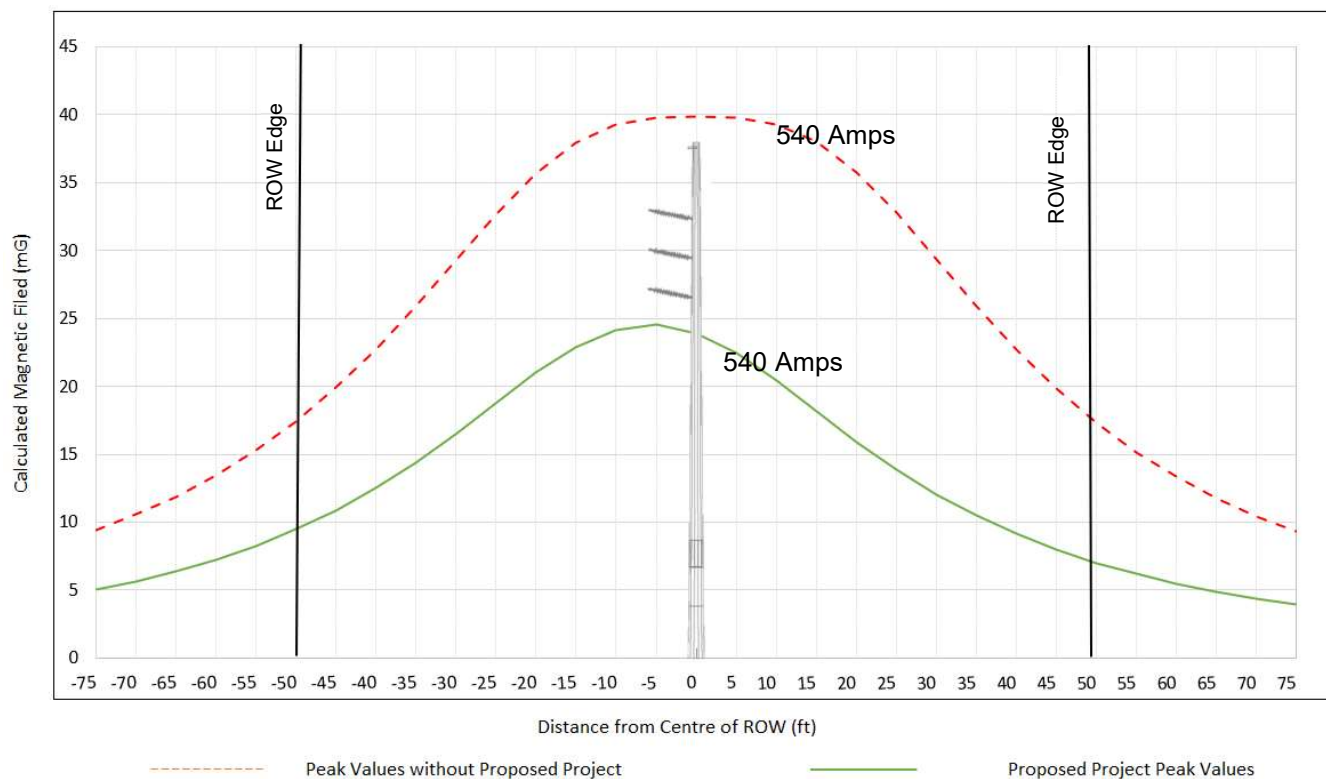


Table 9 – Comparison of Magnetic Fields at Edge of ROW for Segment 1, Structure M17-T4 to M17-T5

Design Options	Left Edge (mG)	% Change ³³	Right Edge (mG)	% Change ³²
Projected Peak Values without GKR Project 66 kV T/L	17.4	N/A	17.313	N/A
GKR Project Peak Values 66 kV T/L *	9.453	46% Reduced	6.998	60% Reduced

*The GKR Project alignment is shifted to the left an average of 12 feet transversely and 9 feet longitudinally in either direction in relation to the existing alignment.

³³ All data in Percent Change column is compared to the Projected Peak Values without the GKR Project

All calculations were made at a height of 3 feet across the ROW.

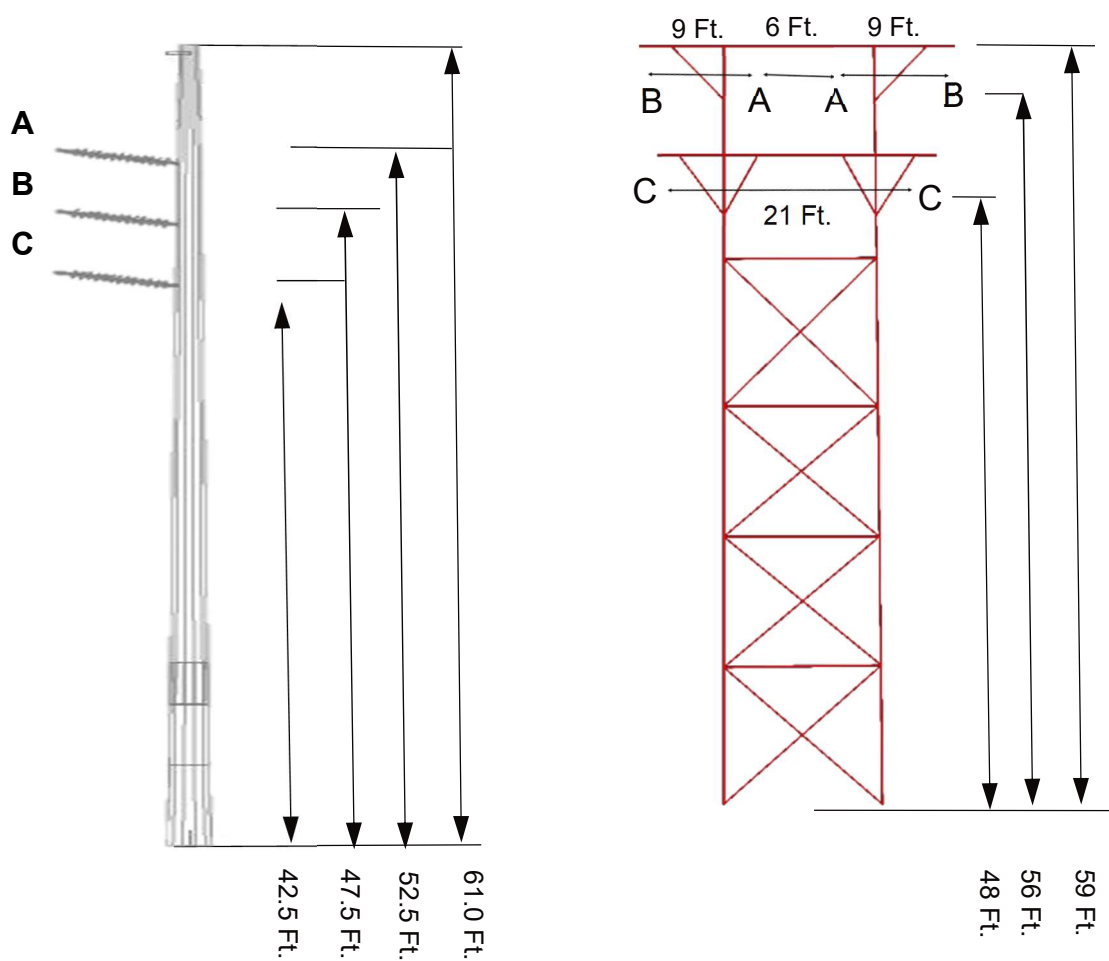
Existing Height and Insulator Length

Height – 59 Ft. Length – 3.1 Ft.

Proposed Construction and Insulator Length

Height – 65.5 Ft. Length – 5.2 Ft.

Figure 18 – Tower and Insulator Dimensions and Phasing for a structure in Segment 1, Kern River 1 Hydroelectric Substation to Structure M20-T3



Proposed:
Single Circuit – Monopole
Figure not to Scale
Structure M17-T5

Existing:
Double Circuit – Lattice Tower
Figure not to Scale
Structure M17-T5

Dimensions are for the shorter structure, phase angles were assumed and based on approved PLS-CADD models.

8.4 Segment 1, Structure M18-T3 to M18-T4 Span

Figure 19 – Typical Magnetic Field Levels for Segment 1, Span M18-T3 to M18-T4 (Looking South)

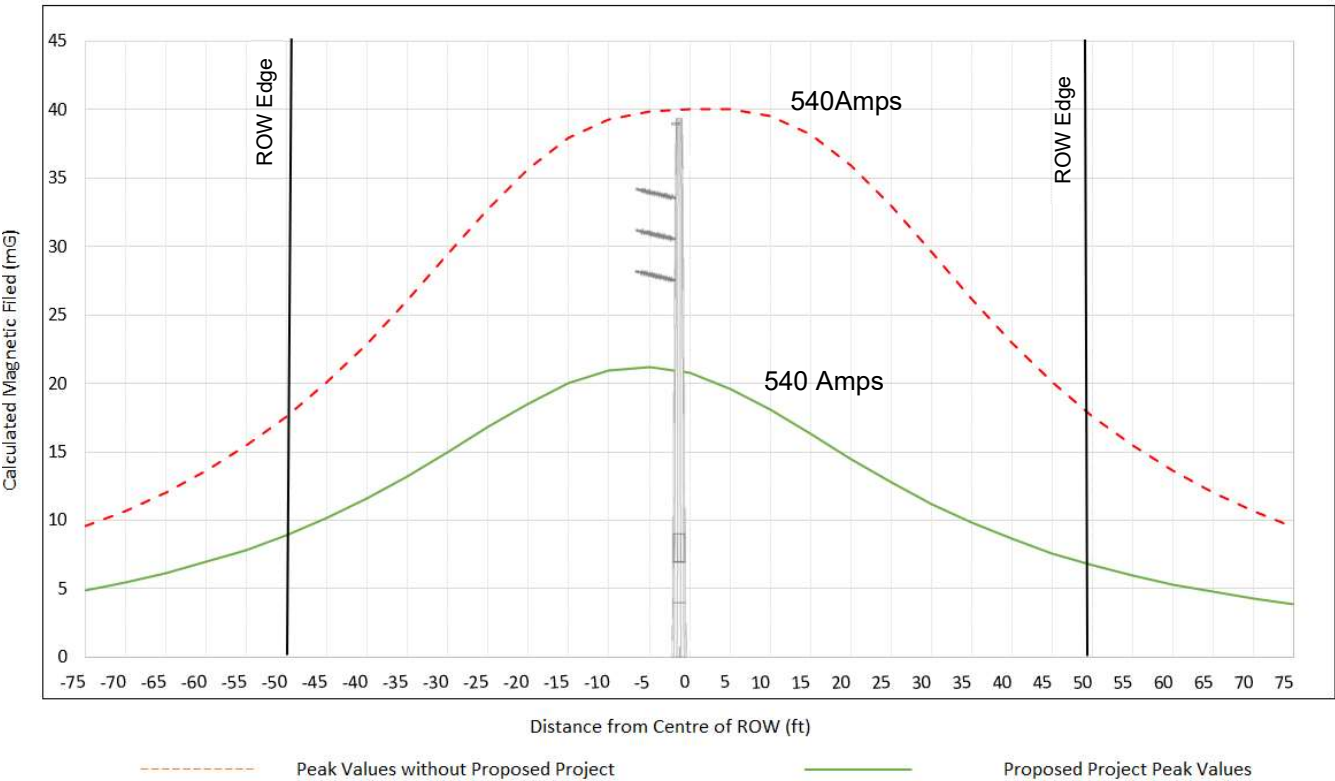


Table 10 – Comparison of Magnetic Fields at Edge of ROW for Segment 1, Structure M18-T3 to M18-T4

Design Options	Left Edge (mG)	% Change ³⁴	Right Edge (mG)	% Change ³³
Projected Peak Values without GKR Project 66 kV T/L	17.6	N/A	17.592	N/A
GKR Project Peak Values 66 kV T/L *	8.921	49% Reduced	6.702	62% Reduced

*The GKR Project alignment is shifted to the left an average of 12 feet transversely and 9 feet longitudinally in either direction in relation to the existing alignment.

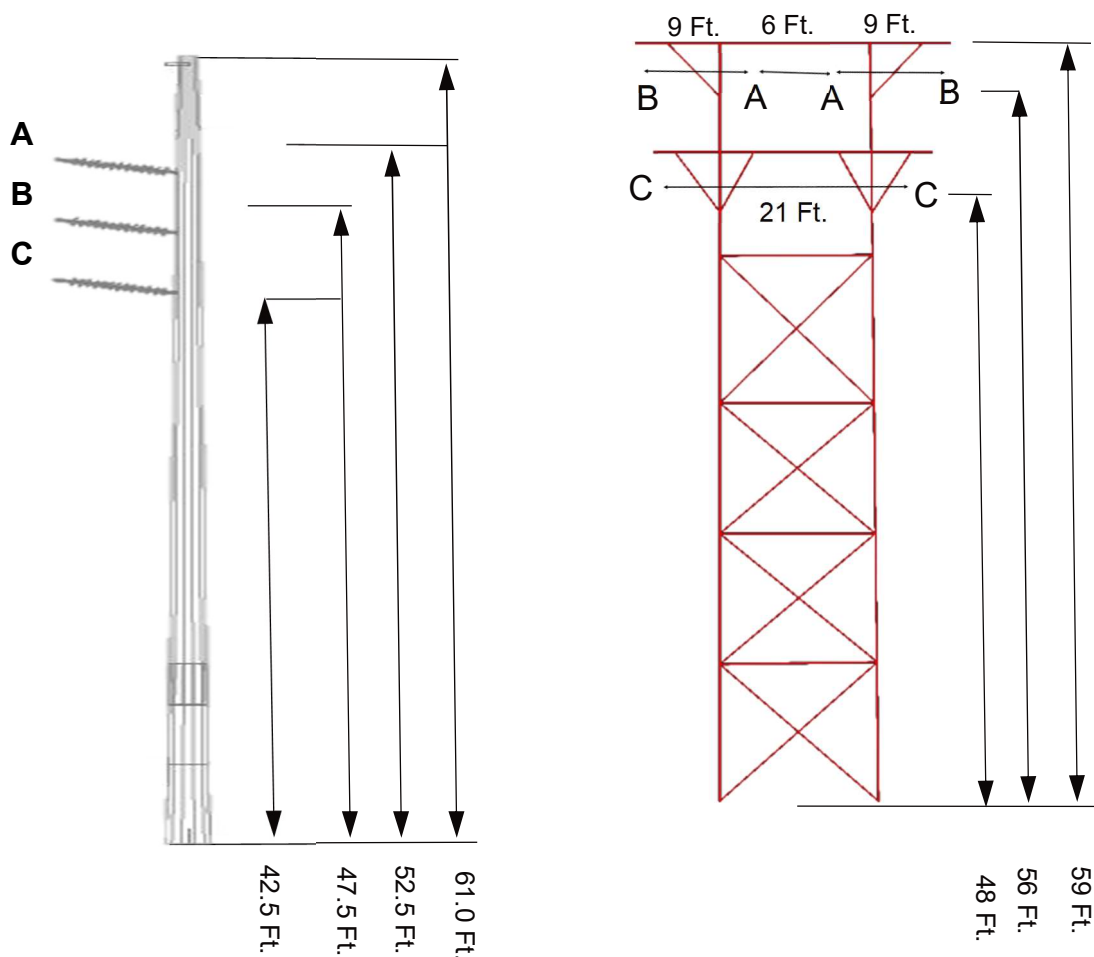
All calculations were made at a height of 3 feet across the ROW.

Existing Height and Insulator Length
Height – 59 Ft. Length – 3.1 Ft.

Proposed Construction and Insulator Length
Height – 70 Ft. Length – 5.2 Ft.

³⁴ All data in Percent Change column is compared to the Projected Peak Values without the GKR Project

Figure 20 – Tower and Insulator Dimensions and Phasing for a structure in Segment 1, Kern River 1 Hydroelectric Substation to Structure M20-T3



Proposed:
Single Circuit – Monopole
Figure not to Scale
Structure M18-T4

Existing:
Double Circuit – Lattice Tower
Figure not to Scale
Structure M18 – T4

Dimensions are for the shorter structure, phase angles were assumed and based on approved PLS-CADD models.

8.5 Segment 4, Structure M9-T6 to M9-T7 Span

Figure 21 – Typical Magnetic Field Levels for Segment 4, Span M9-T6 to M9-T7 (Looking East)

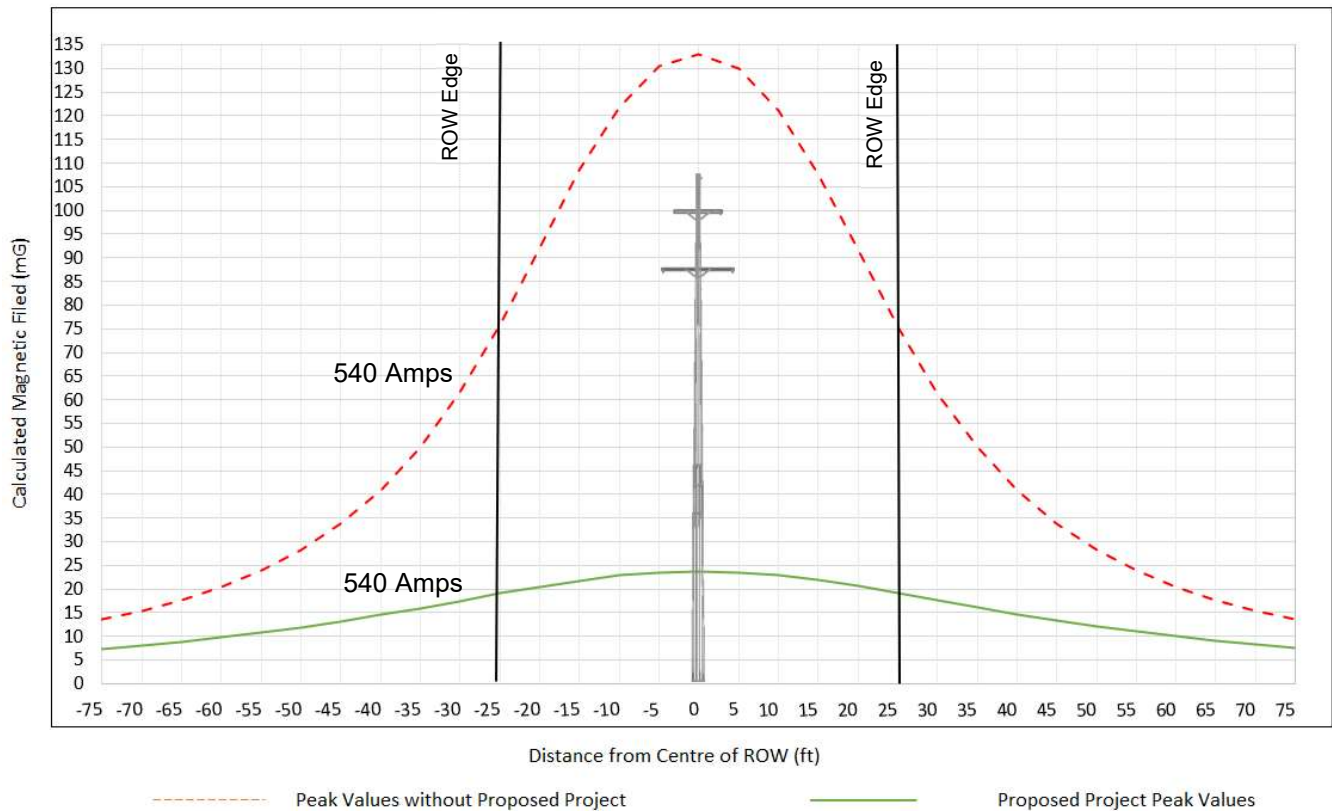


Table 11 – Comparison of Magnetic Fields at Edge of ROW for Segment 4, M9-T6 to M9-T7

Design Options	Left Edge (mG)	% Change ³⁵	Right Edge (mG)	% Change ³⁴
Projected Peak Values without GKR Project 66 kV T/L	75.888	N/A	75.478	N/A
GKR Project Peak Values 66 kV T/L	19.005	75% Reduced*	19.159	75% Reduced*

*The high reduction in the magnetic field is due to the significant height increase of structure M9-T7 when compared to the existing structure.

All calculations were made at a height of 3 feet across the ROW.

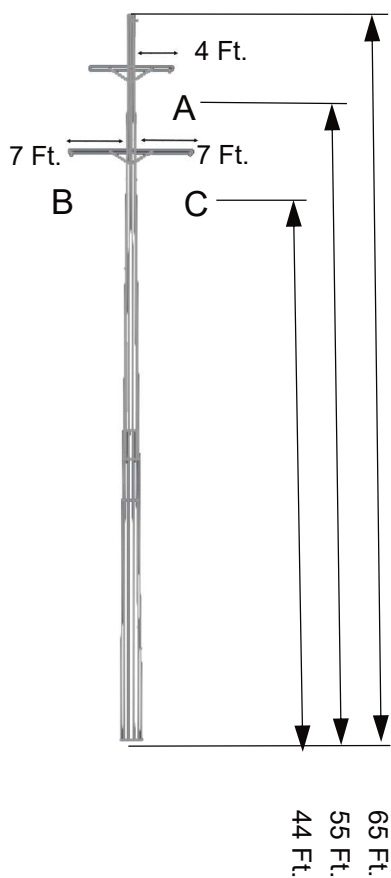
Existing Height and Insulator Length
Height – 53 Ft. Length – 3.1 Ft.

Proposed Construction and Insulator Length

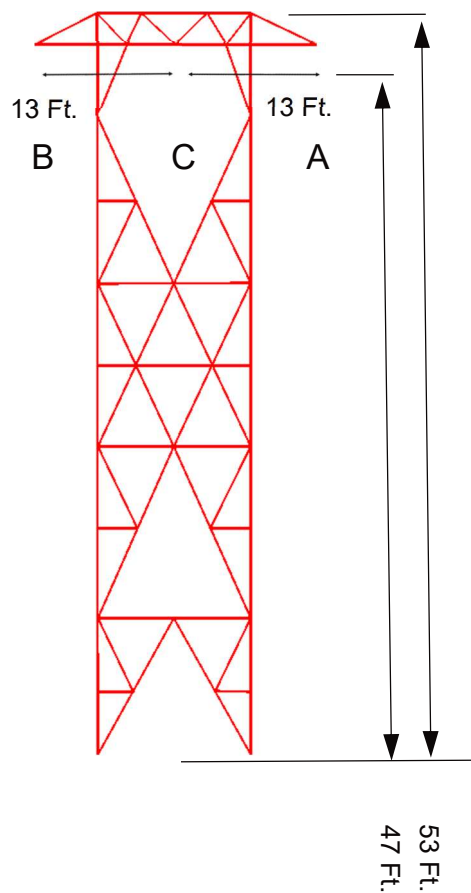
³⁵ All data in Percent Change column is compared to the Projected Peak Values without the GKR Project

Height – 64 Ft. Length – 3.0 Ft. for structure M9-T6 and 106 Ft. Length – 3.0 Ft for structure M9-T7.

Figure 22 – Tower and Insulator Dimensions and Phasing for a structure in Segment 4, Structure M20-T3 to X7666E



Proposed:
Single Circuit – Monopole
Figure not to Scale
Structure M9-T6



Existing:
Single Circuit – Lattice Tower
Figure not to Scale
Structure M9-T6

Dimensions are for the shorter structure, phase angles were assumed and based on approved PLS-CADD models.

EMF Field Management Plan for the SCE TLRR Gorman-Kern River 66 kV Project

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